Register your product and get support at

www.philips.com/welcome

EN User Manual

PHILIPS

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1 Get started

Important

Congratulations

Congratulations on your purchase, and welcome to Philips! To fully benefit from the support that Philips offers, register your TV at (http://www.philips.com/welcome).

Safety

Read and understand all instructions before you use your TV. If damage is caused by failure to follow instructions, the warranty does not apply.

Risk of electric shock or fire!

Never expose the TV to rain or water. Never place liquid containers, such as vases, near the TV. If liquids are spilt on or into the TV, disconnect the TV from the power socket immediately. Contact Philips Consumer Care to have the TV checked before use.

- Never insert objects into the ventilation slots or other openings on the TV.
- When the TV is swivelled, ensure that no strain is exerted on the power cord. Strain on the power cord can loosen connections and cause arcing.
- Never place the TV, remote control or batteries near naked flames or other heat sources, including direct sunlight. To prevent the spread of fire, keep candles or other flames away from the TV, remote control and batteries at all times.

Risk of short circuit or fire!

- Never expose the remote control or batteries to rain, water or excessive heat.
- Avoid force coming onto power plugs. Loose power plugs can cause arcing or fire.

Risk of injury or damage to the TV!

- Two people are required to lift and carry a TV that weighs more than 25 kg/55 lbs.
- When stand mounting the TV, use only the supplied stand. Secure the stand to the TV tightly. Place the TV on a flat, level surface that can support the combined weight of the TV and the stand.
- When wall mounting the TV, use only a wall mount that can support the weight of the TV. Secure the wall mount to a wall that can support the combined weight of the TV and wall mount. Koninklijke Philips Electronics N.V. bears no responsibility for improper wall mounting that result in accident, injury or damage.
- Before you connect the TV to the power socket, ensure that the power voltage matches the value printed on the back of the TV. Never connect the TV to the power socket if the voltage is different.

Risk of injury to children!

Follow these precautions to prevent the TV from toppling over and causing injury to children:

- Never place the TV on a surface covered by a cloth or other material that can be pulled away.
- Ensure that no part of the TV hangs over the edge of the mounting surface.
- Never place the TV on tall furniture, such as a bookcase, without anchoring both the furniture and TV to the wall or a suitable support.
- Educate children about the dangers of climbing on furniture to reach the TV.

Risk of overheating!

- Never install the TV in a confined space. Always leave a space of at least 4 inches around the TV for ventilation. Ensure curtains or other objects never cover the ventilation slots on the TV.

Risk of injury, fire or power cord damage!

- Never place the TV or any objects on the power cord.
- To easily disconnect the TV power cord from the power socket, ensure that you have full access to the power cord at all times.
- When you disconnect the power cord, always pull the plug, never the cable.
- Disconnect the TV from the socket and aerial before lightning storms. During lightning storms, never touch any part of the TV, power cord or aerial cable.

Risk of hearing damage!

Avoid using earphones or headphones at high volumes or for prolonged periods of time.

Low temperatures

If the TV is transported in temperatures below 5°C/41°F, unpack the TV and wait until the TV temperature matches room temperature before connecting the TV to the power socket.

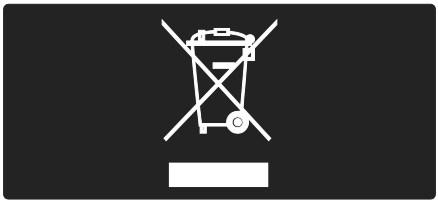
Screen care

- Risk of damage to the TV screen! Never touch, push, rub or strike the screen with any object.
- Unplug the TV before cleaning.
- Clean the TV and frame with a soft damp cloth. Never use substances such as alcohol, chemicals or household cleaners on the TV.
- To avoid deformations and colour fading, wipe off water drops as soon as possible.
- Avoid stationary images as much as possible. Stationary images are images that remain on-screen for extended periods of time. Stationary images include on-screen menus, black bars, time displays etc. If you must use stationary images, reduce screen contrast and brightness to avoid screen damage.

End of use

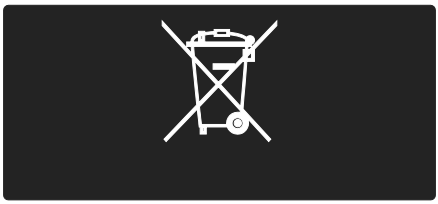
Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

When this crossed-out wheeled bin symbol is attached to a product it means that the product is covered by the European Directive 2002/96/EC. Please inform yourself about the local separate collection system for electrical and electronic products.



Please act according to your local rules and do not dispose of your old products with your normal household waste. Correct disposal of your old product helps to prevent potential negative consequences for the environment and human health.

Your product contains batteries covered by the European Directive 2006/66/EC, which cannot be disposed with normal household waste. Please inform yourself about the local rules on separate collection of batteries because correct disposal helps to prevent negative consequences for the environmental and human health.



Green eco

This TV has been awarded the European Union Ecolabel for its environmental qualities.

A TV that is awarded the Ecolabel includes the following green eco features that contribute to energy-efficient use:

Adjustable green eco settings

Access green eco settings while watching TV by pressing the green button on the remote control.

These green eco settings include:

- **Energy-saving picture settings**: The **[Energy saving]** smart setting applies a combination of picture settings to reduce energy consumption.
- **Ambient light sensor**: To save energy, the built-in Ambient light sensor lowers the brightness of the TV screen when the surrounding light darkens.
- **Mute screen**: Turns off the TV display. Other functions, including sound, continue to operate normally. 'Muting' the screen saves energy if you just want to listen to audio from the TV.

See **Set up the TV > Change other settings > Green eco settings** (Page 33) for more information about these green eco settings.

Built-in green eco settings

- **Low standby power consumption**: The class-leading and highly advanced power circuitry brings down the power consumption of the TV to an extremely low level, without losing out on the constant standby functionality.
- **Dedicated power switch**: Completely cut off power to the TV with the dedicated power switch located on the bottom of the set.
- **Advanced power management**: The advanced power management of this TV ensures the most efficient use of its energy. To view how your personalised TV settings affect the TV's relative power consumption, press ⌂ and select **[Setup] > [Demo] > [Active Control].**

We continually focus on lowering the environmental impact of our innovative consumer products. We aim our efforts towards making environmental improvements during manufacturing, including reduction of harmful substances, promoting energy-efficient use and providing information on end of use and product recycling.

EUROPEAN UNION ECOLABEL
Award to goods or services which meet the environmental requirements of the EU eco-labelling scheme
NL/22/001

Thanks to our environmental efforts, this TV is awarded the European Ecolabel.

Find detailed information on standby energy consumption, warranty policy, spare parts and recycling of this TV at the Philips website for your country (http://www.philips.com/).

Information on end of use

To find out about the correct disposal of this TV and batteries, see **Get started > Important > End of use** (Page 4).

Use a Kensington lock

Your TV is equipped with a Kensington security slot on the bottom of the TV. Purchase a Kensington anti-theft lock (not supplied) to secure the TV.

Enjoy HD TV

Full HD content

This TV can display full High-Definition (HD) video content. To enjoy HD content, you must connect to an HD source first; otherwise, the picture quality will be that of a normal TV.

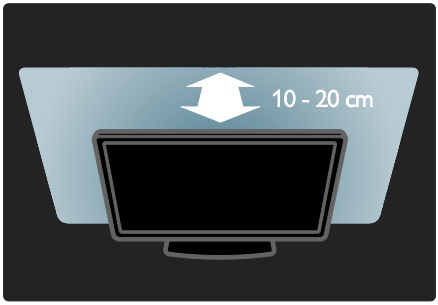
Contact your dealer for more information on where to obtain HD video content in your country. Alternatively, visit (http://www.philips.com/support) for a list of HD channels or providers in your country.

Your TV can display HD video content from:

- a Blu-ray disc player, connected with an HDMI cable, playing a Blu-ray disc
- an upscaling DVD player, connected with an HDMI cable, playing a DVD disc
- an over-the-air HD broadcaster (DVB-T MPEG4)
- a digital HD receiver, connected with an HDMI cable, playing HD content from a cable or satellite operator
- an HD channel on your DVB-C network
- an HD game console (for example, X-Box 360 or PlayStation 3), connected with an HDMI cable, playing an HD game

Position the TV

- Before positioning the TV, read all safety precautions (see **Get Started > Important > Safety**).
- Position the TV where light does not shine directly on the screen.
- The ideal distance from which to watch TV is three times its diagonal screen size. For example, if the diagonal screen size of the TV is 116 cm/46 ", the ideal viewing distance is approx. 3.5m/138" from the front of the screen.
- While seated, your eyes should be level with the centre of the screen.
- For the best Ambilight effect, position the TV between 10 and 20 cm away from the wall.



Wall mount the TV

To mount the TV, purchase a Philips TV mount or a compatible TV mount. Check your TV screen size and match it against the list for the type of wall mount to purchase:

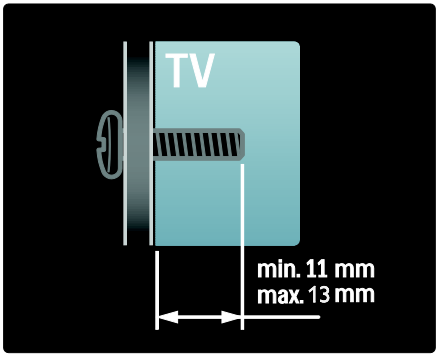
32 inches/81 cm: 200 mm x 300 mm, M6
37 inches/94 cm: 200 mm x 200 mm, M6
40 inches/102 cm: 200 mm x 200 mm, M6
42 inches/107 cm: 200 mm x 200 mm, M6
46 inches/117 cm: 300 mm x 300 mm, M8

Warning: Follow all instructions provided with the TV mount. Koninklijke Philips Electronics N.V. bears no responsibility for improper TV mounting that results in accident, injury or damage.

To prevent damage to cables and connectors, be sure to leave a clearance of at least 5.5 cm/2.2" from the back of the TV.

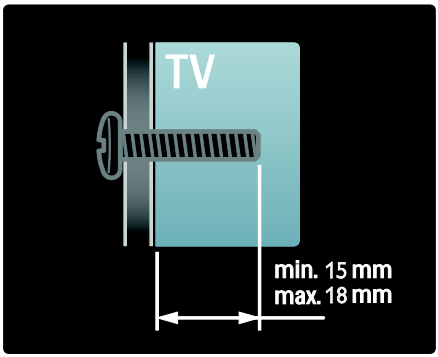
For 32-inch to 42-inch TVs:

Before you wall mount the TV, make a note of the correct length of the screw.
You can determine the length of the screw by adding the thickness of your wall mount to the screw length shown in the graphic.



For 46-inch TVs:

Before you wall mount the TV, make a note of the correct length of the screw.
You can determine the length of the screw by adding the thickness of your wall mount to the screw length shown in the graphic.



Product highlights

Full HD LCD display

This TV is equipped with a full High-Definition (HD) LCD display, supporting the maximum HD resolution of 1920 x 1080p. This display offers a brilliant flicker-free progressive scan picture with optimum brightness and superb colours.

The LED backlight of the display offers exceptional picture contrast with exceptional energy saving.

Ambilight

Ambilight is the lighting technology that emanates from the back of the television onto the wall. This innovative technology automatically adjusts the colour and brightness of the light to match the TV picture.

This creates an unprecedented improvement in viewing experience. The light also reduces eyestrain, thus providing a more relaxing viewing experience.
See **Use your TV > Use Ambilight** (see "NonPublish" on page 14).

Digital TV

In addition to normal analogue TV broadcasts, your TV can receive digital terrestrial (DVB-T) broadcasts. Where available, your TV can also receive digital cable (DVB-C), digital satellite (DVB-S: **Not supported on all models**) and digital radio broadcasts.

DVB (Digital Video Broadcasting) gives you a better picture and better sound quality. Some digital broadcasters also include several audio (speech) and/or teletext languages with DVB.

Programme guide (EPG)

Electronic Programme Guide (EPG) is an on-screen guide available for digital channels. EPG allows you to:

- View a list of digital programmes being broadcast
- View upcoming programmes
- Group programmes by genre
- Set reminders when programmes start
- Set up preferred EPG channels

Notes:

- EPG is not available in all countries.
- For more information on EPG, see **Use more of your TV > Use EPG** (Page 18).

Net TV

Net TV allows you to enjoy movies, music and other infotainment from the Internet directly on your TV screen. See **Use your TV > Enjoy Net TV** (see "NonPublish" on page 15).

To enjoy Net TV, you must connect the TV to a network. See **Set up the TV > Set up a network** (see "NonPublish" on page 29).

Video store

The Philips Video store gives you access to a wide range of high-quality movies that you can watch directly on your TV.

See **Use more of your TV > Access Video store** (see "NonPublish" on page 20).

Multimedia

View or play your own multimedia files (such as photos, music and videos) from the USB connection on the side of the TV.

See **Use more of your TV > Access multimedia** (Page 21).

Access more information

On-screen

You are reading the on-screen user manual. This manual contains all of the information you need to install and use this TV. Access the user manual by selecting **[Help]** in the home menu.

Before carrying out instructions, temporarily close the user manual by pressing the yellow button on the remote control. Press the yellow button again to open the user manual at the same page.

On the Internet

A printable PDF version of this user manual is available on the Internet. It contains the latest information and detailed feature explanations not covered in this on-screen user manual.

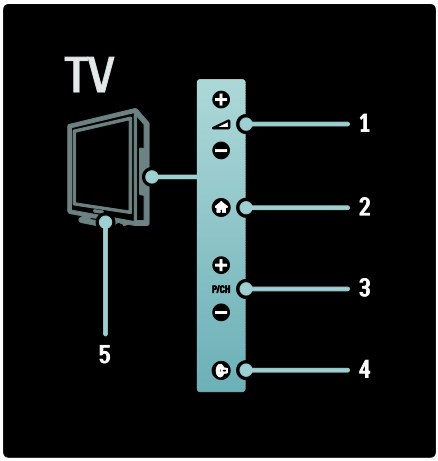
Access the PDF, as well as other product information, including FAQs and firmware upgrades, at (http://www.philips.com/support).

2 Use your TV

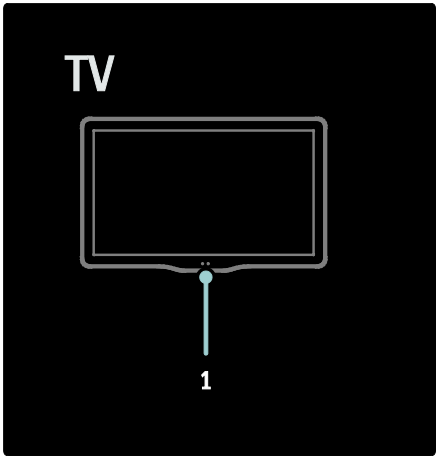
Overview

This section gives you an overview of commonly used TV controls and functions.

Side controls and indicators



1. ⊿ **+/-**: Increases or decreases volume. In home menu, these buttons allow you to move horizontally.
2. : Accesses the home menu. Press again to launch an activity in home menu.
3. P/CH +/- : Switches to the next or previous channel. In the home menu, these buttons allow you to move vertically.
4. (**Ambilight**) : Switches Ambilight on or off. During TV standby, switches Loungelight on or off.



1. Ambient sensor/remote control sensor/LightGuide*

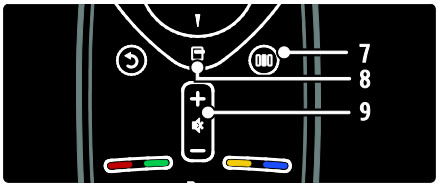
• LightGuide is available on certain models only. Select **[Setup]** >**[Preferences]** >**[LightGuide brightness]** to adjust the brightness of the LightGuide.

Remote control

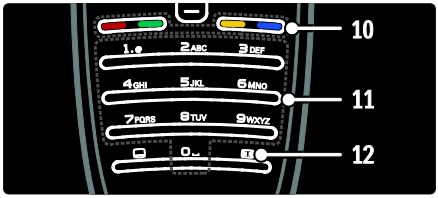
Overview

1. (**Standby**): Switches the TV to standby if it is on. Switches on the TV if it is in standby.
2. (**Home**): Accesses the home menu.
3. (**Browse**): Accesses the browse menu to select TV channel list, the Electronic Programme Guide and teletext.

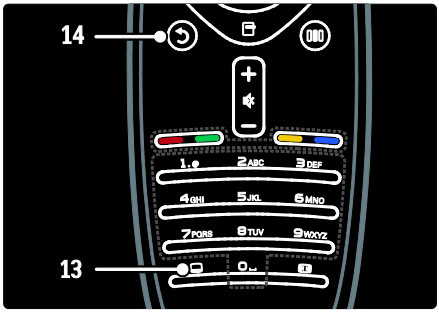
4. (**Navigation buttons**): Navigates menus and selects items.
5. (**Previous/Next**): Selects the previous or next channel. Skips to the previous or next page of the menu. Also skips to the previous or next track, album or folder.
6. **OK**: Confirms an entry or selection.



7. (**Experience**): Accesses the experience bar menu.
8. **(Options)**: Accesses options for the current activity or selection.
9. **+/-** (**Volume**) and (**Mute**): Increases or decreases volume; mutes or restores audio.



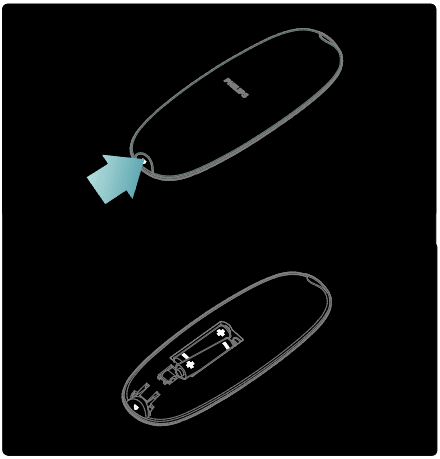
10. **Colour buttons**: Selects tasks or options.
11. **0-9** (**Numeric buttons**): Selects a channel or setting.
12. (**Picture format**): Selects a picture format.



13. (**Subtitle**): Enables or disables subtitles.
14. (**Back**): Returns to a previous menu screen. Press and hold to return to watching TV.

Batteries

Open the battery cover on the back of the remote control to insert the batteries (Type AAA-LR03-1.5 V). Make sure the + and - ends of the batteries line up correctly (+ and - are marked inside).
Remove the batteries if you are not using the remote control for a long time. Dispose of batteries according to the end of use directives. Read **Get started > Important > End of use**.



On-screen remote control

An On-Screen Remote Control (OSRC) is available, which gives you easy access to commonly-used functions. Availability of on-screen buttons differs according to your TV setup.

To access the OSRC

1. While watching TV or a connected device, press .
2. Select **[Show device keys]**, then press **OK**.
3. Use the **Navigation buttons** and **OK** to select and use an on-screen button.

Basic TV menus

Home

The home menu lists the activities you can do with your TV.

1. Press .
2. Select an icon in the home menu, then press **OK** to launch the activity.
3. To exit the home menu, press again or .

To start an activity, highlight the desired item with the **Navigation buttons** and press **OK**:

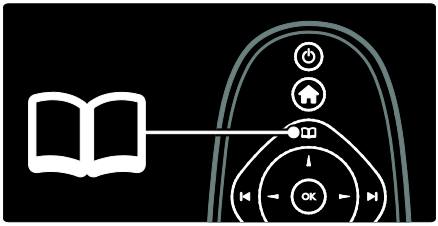
- **[Watch TV]** Switches back to the antenna source if another source is selected.
- **[Watch satellite]** Switches to satellite channels received via satellite (DVB-S) source.
- **[Rented videos]** Accesses an internet portal to browse and purchase videos.
- **[Browse USB]** If a USB storage device is connected, accesses the content browser.
- **[Browse PC]** Switches back to the antenna source if another source is selected.
- **[Browse Net TV]** Accesses Net TV.
- **[Scenea]** Switches to the Scenea wallpaper.
- **[Show widgets]** Accesses widgets by online service providers (Only available if connected to the Internet).
- **[Add your devices]** Adds new devices to the home menu.
- **[Setup]** Accesses menus that allow you to change picture, sound and TV settings.

Browse

The browse menu gives you easy access to:

- TV channel list
- Electronic Programme Guide
- Teletext

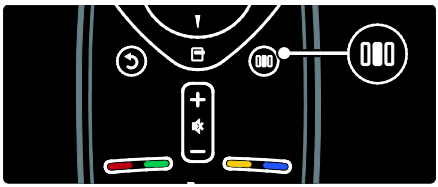
To access the browse menu, while watching TV, press .



1. Press the **Navigation buttons** to select an item:
   - **[Channel list]**: Accesses the TV channel list.
   - **[Programme guide]**: Accesses the Electronic Programme Guide.
   - **[Teletext]**: Accesses teletext.
2. Press **OK** to confirm your choice.

Experience

Press to access the experience bar menu, which provides a range of frequently-used settings.



The experience bar menu gives you easy access to:

- **[Ambilight]**: Turns Ambilight on or off.
- **[Ambilight active mode]**: Adjusts the speed of Ambilight response.
- **[Picture format]**: Changes the picture format.
- **[Smart picture]**: Frequently-used picture settings.
- **[Smart sound]**: Frequently-used sound settings.
- **[Speakers]**: Configure TV speakers for Philips EasyLink.
- **[Picture shift]**: Adjusts the position of the picture.

Channel list

The channel list displays the TV channels and possible radio stations installed on your TV.
1. While watching TV, press 🕮.
2. Select **[Channel list]**, then press **OK**.
3. Select a channel, then press **OK** to access the channel.
4. Press ↩ to exit the channel list without changing the channel.

Add your devices

When you have connected a device to the TV, always add this device as an item in the home menu. With this item in the home menu, you can easily switch the TV to this device.

In the home menu, select **[Add your devices]**, then press **OK**. Follow the instructions on-screen to add the device to the home menu.

To remove a device from the home menu, select the item, press ☐ and select **[Remove this device]**. Press **OK**.

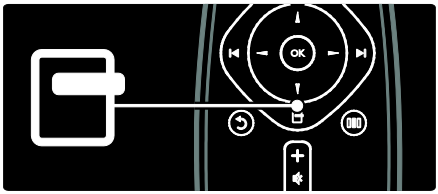
Setup

[Setup] in the home menu allows you to change most of the TV settings, including:

- Picture or sound settings
- Installation or update of TV channels
- Update of TV software
- Other special features

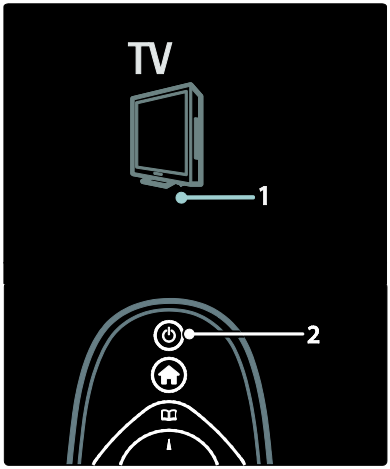
Options

Option menus offer convenient settings related to what is on-screen.
1. Press ☐ to see what options are available.
2. To exit, press ☐ again.



Watch TV

Switch on/off or to standby



To switch on

Press the power switch (1) on the bottom of the TV.

To switch on from standby

Press ⏻ on the remote control (2).

To switch to standby

Press ⏻ on the remote control.

To switch off

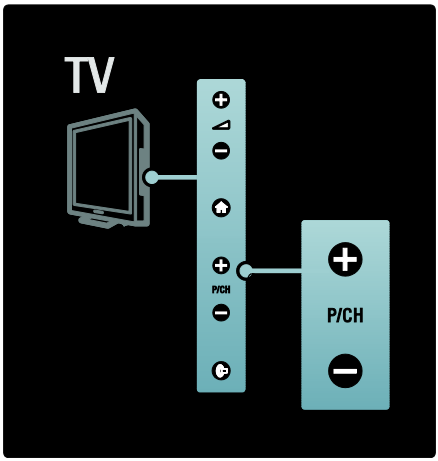
Press the power switch on the bottom of the TV.

Though your TV consumes very little power when in standby, energy continues to be consumed. When not in use for an extended period of time, switch off the TV using the power switch on the bottom of the set.

Tip: If you cannot locate your remote control and want to switch on the TV from standby, press **P/CH +/-** on the side of the TV.

Switch channels

- Press on the remote control or **P/CH +/-** on the side of the TV.



- Press , then select **[Channel list]** to use the channel list.
- Press to return to the previously-viewed channel.
- Enter a channel number using the **Numeric buttons**.

To view analogue or digital channels only

Filter the channel list to access analogue or digital channels only.

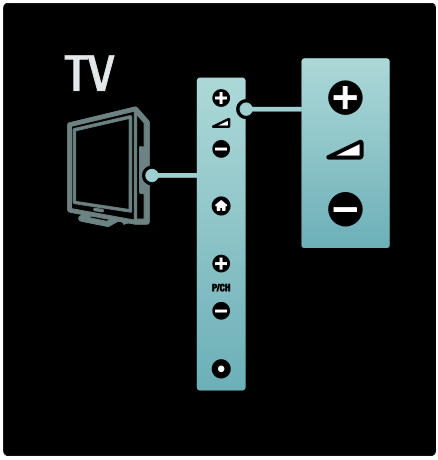
1. In the channel list, press .
2. Select **[Select list]** > **[Analogue channels]** or **[Digital channels]**, then press **OK**.

Depending on your selection, only digital or analogue channels become available.

Adjust volume

To increase or decrease volume

- Press **+/-** on the remote control.
- Press **+/-** on the side of the TV.



To mute or unmute sound

- Press to mute the sound.
- Press again to restore the sound.

Use the **[Sound]** menu to adjust headphone volume. For more information, see **Setup the TV > Change picture and sound settings > More sound settings** (Page 26).

Use Smart picture settings

Use the **[Smart picture]** experience bar to access frequently-used picture settings.

1. While watching TV, press .
2. Select **[Smart picture]**, then select one of the following settings:

- **[Personal]**: Sets the TV to your personal preferences set in the **[Picture]** menus in **[Setup]**.
- **[Vivid]**: Rich and dynamic settings, ideal for daylight use.
- **[Natural]**: A natural picture setting.
- **[Cinema]**: Ideal settings for watching movies.
- **[Game]**: Ideal settings for gaming.
- **[Energy saving]**: The most energy-conscious settings. Factory standard settings.
- **[Standard]**: Adjusts picture settings to suit most environments and types of video.
- **[Photo]**: Ideal settings for viewing photos.

- **[Custom]**: Allows you to customise and store personal picture settings.

3. Press **OK** to confirm your choice.
4. Press ↩ to exit.

Use Smart sound settings

Use the **[Smart sound]** experience bar to access frequently-used sound settings.
1. While watching TV, press ▮▮▮.
2. Select **[Smart sound]**, then select one of the following settings:

- **[Personal]**: Sets the TV to your personal preferences set in the **[Sound]** menus in **[Setup]**.
- **[Standard]**: Adjusts sound settings to suit most environments and types of audio.
- **[News]**: Applies sound settings ideally suited for spoken audio, such as the news.
- **[Movie]**: Applies sound settings ideally suited for movies.
- **[Game]**: Ideal settings for gaming.
- **[Drama]**: Applies sound settings ideally suited for drama.
- **[Sports]**: Applies sound settings ideally suited for sports.

3. Press **OK** to confirm your choice.
4. Press ↩ to exit.

Change picture format

Change the picture format to suit your viewing experience.
1. Press ▭.
2. Select a picture format, then press **OK** to confirm your choice.

Note: Picture formats are also accessible via the experience bar menu (▮▮▮) and **[Setup]** menu.

The following picture formats can be selected:

- **[Auto fill]**: Adjusts the picture to fill the screen (subtitles remain visible). Recommended for minimal screen distortion but not for HD or PC.
- **[Auto zoom]**: Enlarges the picture to fill the screen. Recommended for minimal screen distortion but not for HD or PC.
- **[Super zoom]**: Removes the black bars on the sides of 4:3 broadcasts. Not recommended for HD or PC.
- **[Movie expand 16:9]**: Scales the classic 4:3 format to 16:9. Not recommended for HD or PC.
- **[Wide screen]**: Stretches the classic 4:3 format to 16:9.
- **[Unscaled]**: Provides maximum detail for PC. Only available when **[PC mode]** is enabled in the **[Picture]** menu.
- ...

Notes:

- Depending on the picture source, some picture formats are not available and will not be seen on-screen.

Watch a connected device

Add new device

Notes:

- Before watching a connected device, you must add it to the home menu.
- HDMI ARC compliant devices connected to the **HDMI ARC** connector on the TV are automatically added to the home menu.

1. Connect and switch on the device.
2. Press ⌂.
3. Select **[Add your devices]**, then press **OK**. Follow the on-screen instructions.

Watch connected device

1. Press ⌂.
2. Select the device from the home menu.
3. Press **OK** to confirm your choice.

Use Ambilight

Switch Ambilight on

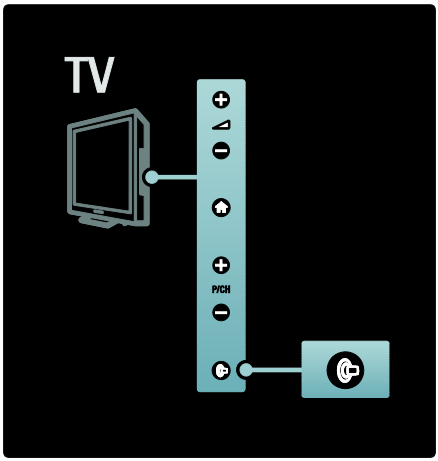
Enjoy a more relaxed viewing experience and improved perceived picture quality. Dim the lighting conditions in the room for the best Ambilight effect.

Caution

To avoid bad infrared remote control reception, place your devices out of sight of Ambilight.

1. Press (**Experience**).
2. Select **[Ambilight]**, then press **OK**.
3. To switch Ambilight on or off, select **[On]** or **[Off]**.

You can also press on the TV to switch Ambilight on or off.



Set active mode

Note: Before you change the Ambilight active mode, set Ambilight **[Colour]** to **[Active mode]**.

Ambilight active mode sets the speed at which Ambilight responds to on-screen images.

1. Press (**Experience**).
2. Select **[Active mode]**, then press **OK**.
3. Move the slider to set Ambilight responsiveness.
4. Press to exit the slider.
5. Press **OK** to confirm your choice.

Use LoungeLight

When the TV is on standby, you can switch on Ambilight and create an Ambilight LoungeLight effect in your room. During TV standby, press on the side of the TV.

Note: It may take more than 5 seconds for the LoungeLight to switch on.

To select another LoungeLight colour scheme, see **Use your TV > Use Ambilight > More Ambilight settings** (see "NonPublish" on page 15).

More Ambilight settings

In the Ambilight menu, you can adjust more Ambilight settings.

While watching TV, press > **[Setup]** > **[Advanced TV settings]** > **[Ambilight]**.

Select a setting to adjust:

- **[Dynamic]**: Sets Ambilight between relaxed and dynamic levels. This feature is only available when Ambilight **[Colour]** is set to **[Dynamic]**.
- **[Brightness]**: Adjusts the brightness of Ambilight.
- **[Colour]**: Selects a predefined colour.
- **[Custom colour]**: Fine tunes predefined colours.
- **[Separation]**: Adjusts the difference in colour levels between each side of the TV. Turn off this feature for a dynamic and uniform Ambilight colour.
- **[TV switch off]**: Selects how the TV switches off.
- **[Lounge light mood]**: Selects a lounge light mode. This setting is applied when lounge light is enabled in standby mode.
- **[Scenea lounge light]**: Turns Scenea lounge light on or off.
- **[Wall colour]**: Selects a colour to match the wall colour so that Ambilight colours are adjusted to display correctly.

Enjoy Net TV

Benefits

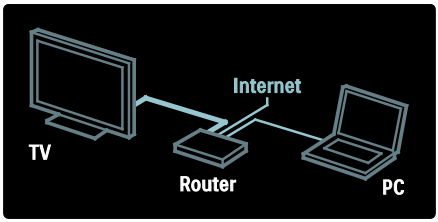
Koninklijke Philips Electronics N.V. bears no responsibility for content provided by Net TV service providers.

Net TV offers Internet services and websites tailored for your TV. Use the TV remote control to browse the Net TV Internet pages. You can play movies, view pictures, listen to music, consult infotainment, play games and much more, all from your TV screen.

- Because Net TV is an online system, it can be modified over time to better serve its purpose.
- Some Net TV services can be added, changed or stopped after some time.
- Net TV displays pages across the full screen, one page at a time.
- You cannot download and save files or install plug-ins.

What you need

To enjoy Net TV, connect the TV to a router with a broadband connection to the Internet. For more information on network setup, see **Set up the TV > Set up a network** (see "NonPublish" on page 29).



First use

The first time you link up to Net TV, the TV asks you to agree to the Terms of Use. When you agree to these terms, the TV asks you to register for Net TV. After registration, you can switch on the Parental control setting.

Registration benefits

When you have registered for Net TV, the pages you select as favourite pages or as locked pages are stored as back-up. The last 16 web addresses (URLs) you visited are also stored.

...

You can share these same selections with another Net TV television if you register that TV with the same email address. When registered, you can restore these same selections after an accidental reset of Net TV with **[Clear history list]**.

How to register

To register, you need an email address and a PC connected to the Internet. If you skip the registration at first use, you can register from the Net TV start page later on.

To start the Net TV registration, enter your email address on the TV screen. Use the keypad on the remote control as you do for SMS/text messaging to enter the address. Follow the on-screen instructions.

A message appears if a registration email is sent to your email address. Open the email on your PC and click the link to the registration form. Complete the form and click the button to submit.

On the TV, select **[OK]** and press **OK** to open the Net TV start page.

Parental control benefits

With Parental control switched on:

- you can lock and unlock services and/or categories of services
- some services not suitable for children are locked from the start but can be unlocked
- Only services on the Net TV pages can be locked. Advertisements and open Internet websites cannot be locked.
- Services are locked per country. Categories are locked for all countries.

Switch on parental control

The first time you open the Net TV start page, the TV asks you to switch on the Parental control. If you switch on Parental control, the TV asks you to enter a personal lock/unlock code.

Enter a 4-digit code as the Net TV lock/unlock code. Use the number keys on the remote control. Enter the same code again to confirm.

Browse Net TV

Access the Net TV home page

1. Press 🕮 (**Browse**).
2. Select **[Net TV]**, then press **OK**. The TV links up to Net TV and opens the start page.

Navigate the Net TV home page

Press:

- 🕮 to display the list of bookmarks or access an open Internet page.
- **Navigation buttons** to navigate Net TV or web pages.

Navigate the Net TV home page

Press:

- ▭ to access the options menu.
- **OK** to view or select an item.
- ↩ to go back to a previous page.
- 🏠 (**Home**) to exit Net TV and go back to the home menu.

The **[Browse all]** page holds all services. On the **[Browse all]** page, you can view the Net TV services by category. Select a category and press **OK**.

Browse another country

On the **[Browse all]** page you can switch the Net TV country. Another country might have different services.

Select **[Browse: ...]**, select another country, then press **OK**.

Mark favourite Net TV pages

You can mark up to 12 Net TV pages or services as favourites for easy access. Favourite pages are marked with stars.
Note: Only Net TV services can be marked as favourites. Advertisements and open Internet websites cannot be marked.

Mark favourite Net TV pages

1. In Net TV, press ▭.
2. Select **[Bookmark this page]**, then press **OK**.
3. Press ▭ to exit.

Note: Only Net TV services can be marked as favourites. Advertisements and open Internet websites cannot be marked.

All your favourite services are shown in the Net TV start page. On the **[Bookmarks]** page, favourite services are marked with a star.

Access a web page

Note: Some open Internet websites are not tailored to display on a TV screen and may not display correctly on your TV.

1. Press 🕮 (**Browse**).
2. Select **[Go to address]**, then press **OK**.
3. Select the text entry field, then press **OK**.
4. Select numeric/alphabet/symbol, then press **OK** to confirm each entry.
5. Select **[Go to address]**, then press **OK** to view the web page.

Use the on-screen remote control

Use the on-screen remote control to control playback of an online movie or to move up or down a web page.

1. In Net TV, press ▭.
2. Select **[Show remote control]**, then press **OK**.
3. Use the **Navigation buttons** to move the slider up or down the page, then press **OK**.

Enlarge a page

1. In Net TV, press ▭.
2. Select **[Zoom page]**, then press **OK**.
3. Select the action to perform, then press **OK**.

Clear history

1. In Net TV, press ▭.
2. Select **[Clear Net TV memory]**, then press **OK**.

Passwords, cookies and other browsing history are removed from the TV.

3 Use more of your TV

Favourite channels

Add or remove channels

1. Press .
2. Select **[Channel list:]**, then press **OK**.
3. Press .
4. Select **[Mark as favourite]** or **[Unmark as favourite]**, then press **OK**.

A star appears in the channel grid, indicating that the channel is added to the favourite list. The star disappears if you remove the channel from the favourite list.

Select a favourite list

View only channels in a favourite list, or view all channels if a favourite list is currently selected.

1. In the channel list, press .
2. Select **[Select list]** > **[Favourites]** to display channels in a favourite list; or **[All]** to display all channels.
3. Press **OK** to confirm your choice.

Use EPG

Overview

The Electronic Programme Guide (EPG) is an on-screen guide available for digital channels. EPG allows you to:

- View a list of digital programmes being broadcast
- View upcoming programmes
- Group programmes by genre
- Set reminders when programmes start
- Set up preferred EPG channels

Note: EPG is not available in all countries.

Switch on EPG

1. Press .
2. Select **[Programme guide]**, then press **OK**.

EPG options

Use the EPG options menu to set or clear reminders, change day and access other useful EPG options. These options are only accessible for 8 days of TV channel information.

1. When in EPG, press .
2. Press the **Navigation buttons** and **OK** to select and adjust:

- **[Set reminder]**: Sets programme reminders.
- **[Clear reminder]**: Clears programme reminders.
- **[Change day]**: Sets the EPG day. Select **[Today]**, **[Next day]** or **[Previous day]**.
- **[More info]**: Views programme information.
- **[Search by genre]**: Searches TV programmes by genre.
- **[Scheduled reminders]**: Lists programmes reminders.
- **[Preferred channels]**: Sets preferred EPG channels.

Use teletext

Select a page

1. Press .
2. Select **[Teletext]**, then press **OK**.
3. Select a page by:

- Entering the page number with the **Numeric buttons**.
- Pressing ◆ or ⏮ to view the next or previous page.
- Pressing the **Colour buttons** to select a colour coded item.

4. Press ↩ to exit teletext.

Access teletext options

1. When in teletext, press .
2. Select an option:

- **[Freeze page]** / **[Unfreeze page]**: Freezes or unfreezes the current page.

- **[Dual screen]** / **[Full screen]**: Enables or disables dual screen teletext, which splits the current channel or source to the left of the screen, with teletext on the right.
- **[Reveal]**: Hides or reveals hidden information on a page, such as solutions to riddles or puzzles.
- **[T.O.P. overview]**: Table Of Pages (T.O.P.) teletext broadcasts allow you to jump from one subject to another without using page numbers.
- **[Enlarge]** / **[Normal view]**: For more comfortable reading, you can enlarge the teletext page. Press the **Navigation buttons** to move around the enlarged screen.
- **[Cycle subpages]**: Cycles through subpages automatically if subpages are available.
- **[Languages]**: Switches to a different language group to display a language correctly when that language uses a different character set.

3. Press ⧉ to exit the options menu.

Select a teletext language

Some digital TV broadcasters have several teletext languages available. You can set your primary and secondary language.

1. Press ⌂.
2. Select **[Setup]** > **[Advanced channel settings]** or **[Advanced satellite settings]** > **[Languages]** > **[Primary teletext]** or **[Secondary teletext]**.
3. Select your preferred teletext languages, then press **OK**.

Select subpages

A teletext page number can hold several subpages. These subpages are shown on a bar next to the main page number.

When available on a teletext page, press ◄ or ► to select subpages.

Search teletext

1. When in teletext, press **OK** to highlight the first word or number.
2. Press the **Navigation buttons** to skip to the word or number to search.
3. Press **OK** to begin the search.
4. Press ▲ until no word or number is highlighted to exit the search.

Use digital teletext

Some digital TV broadcasters offer dedicated digital text or interactive services on their digital TV channels, for example, BBC1. When in digital teletext:

- Press the **Navigation buttons** to select or highlight items.
- Use the **Colour buttons** to select an option, then press **OK** to confirm or activate.

Note: Digital text services are blocked when subtitles are broadcast and **[Subtitles]** are enabled. Read **Use more of your TV > Use subtitles** (Page 20).

Use Teletext 2.5

Teletext 2.5 offers more colours and better graphics than normal teletext. If Teletext 2.5 is broadcast by a channel, it is switched on by default.

To switch Teletext 2.5 on or off

1. Press ⌂.
2. Select **[Setup]** > **[Advanced TV settings]** > **[Preferences]** > **[Teletext 2.5]** > **[On]** or **[Off]**, then press **OK**.

Use timers, locks and subtitles

Sleeptimer

Sleeptimer switches the TV to standby after a pre-defined period of time. You can always switch off your TV earlier or reset the sleeptimer during the countdown.

1. Press ⌂.
2. Select **[Setup]** > **[Advanced TV settings]** > **[Preferences]** > **[Sleeptimer]**.
3. Press the **Navigation buttons** to set the sleeptimer. The sleeptimer can be set up to 180 minutes, in steps of five minutes. The sleeptimer is switched off if it is set to zero minutes.

4. Press **OK** to activate the sleep timer. The TV switches to standby after the set period of time.

Child lock

To prevent children from watching TV, you can lock the TV or block age-rated programmes.

Set or change the child lock code

1. Press .
2. Select **[Setup]** > **[Advanced channel settings]** > **[Child lock]**.
3. Select **[Set code]** or **[Change code]**.
4. Enter the code with the **Numeric buttons**.

Tip: If you forget your code, enter '8888' to override any existing codes.

Lock or unlock channels

1. In the child lock menu, select **[Channel lock]**.
2. Enter the child lock code with the **Numeric buttons**. The **[Channel lock]** menu appears.
3. Select channels to lock or unlock.

Age rating

Some digital broadcasters rate their programmes according to age. You can set your TV to display only programmes with age ratings higher than your child's age.

1. Press .
2. Select **[Setup]** > **[Advanced channel settings]** or **[Advanced satellite settings]** > **[Child lock]** > **[Parental rating]**. A message appears prompting you to enter the child lock code.
3. Enter the child lock code with the **Numeric buttons**.
4. Select an age rating, then press **OK**. All programmes beyond the selected age rating are blocked.

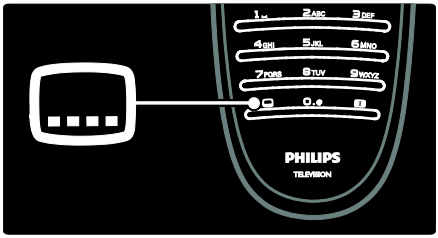
For information on child lock codes, see **Use more of your TV > Use timers and locks > Child lock**.

Subtitles

1. Switch the TV to an analogue TV channel.
2. Press , then select **[Teletext]** and press **OK**.
3. Enter the three number page number of the subtitles page (usually '888').
4. Press to exit teletext. Subtitles display if available.

1. Press .
2. In the menu that appears, select **[Off]**, **[On]** or **[On during mute]**, then press **OK**.

Note: With **[On during mute]**, the TV displays subtitles only when the sound is muted with .



This feature is only supported on selected digital channels.

1. While watching TV, press .
2. Select **[Subtitle language]**.
3. Select a subtitle language from the list, then press **OK**.

Note: More information about language settings is available in **Set up the TV > Change language settings > Audio, Subtitle, Teletext languages** (Page 29).

Access Video store

Benefits

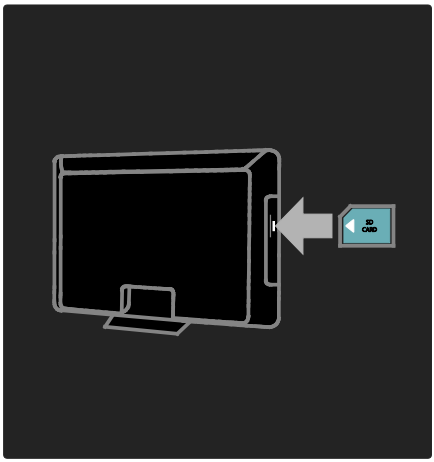
Watch and store video rented through Net TV. To enjoy Net TV, connect the TV to a router with a broadband connection to the Internet; see **Set up the TV > Set up a network** (see "NonPublish" on page 29).

Insert an SD card

Caution: Make sure that you follow the instructions described below. Incorrect insertion of the SD card may damage your SD card. Any existing content stored on the SD card will be erased prior to the downloading of rented videos.

Notes:

- This TV has a standard SD card slot and the SD card is solely for use in Videostore.
- Use a blank SD memory card. The SD card should have a minimum storage capacity of 4 GB. For high-definition video, make sure that you use an SD card with a minimum capacity of 8 GB.



1. Before you insert the SD memory card, remove the Conditional Access Module from the TV.
2. Insert a blank SD memory card with its front label facing out into the SD CARD slot.

Watch rented videos

In the home menu, select **[Rented videos]** > **[Rent videos]** and press **OK**.
Follow the instructions on screen.

Access multimedia

Browse USB

Watch photos or play music and videos on TV from a USB storage device.

Caution: Philips is not responsible if the USB storage device is not supported nor is it responsible for damage or loss of data from the device.

Connect a USB storage device

While the TV is on, connect the USB device to the USB port on the side of your TV. The USB content browser appears.

- To rewind or fast forward a file, press ◄ or ►.
- Press ⮌ to exit content browser.
- While playing a file, press ▭ to access settings catered to your file type.

Video settings

- **[Small screen]**: Plays video in a small screen.
- **[Full screen]**: Plays video across the whole screen.
- **[Repeat]**: Repeats a video.
- **[Shuffle on]** / **[Shuffle off]**: Enables or disables random play of videos.

Notes:

- The USB content browser is also accessible by selecting **[Browse USB]** in the home menu.
- If you connect multiple USB storage devices via a USB hub, a message appears prompting you to select a device. Select the device, then press OK.

Play a file

Select the file you want to play in the content browser, then press **OK**.

- To pause or stop playback, press **OK** again.
- To jump to the previous or next file, press ⏮ or ⏭.

Music settings

- **[Repeat]**: Repeats a song or an album.
- **[Shuffle on]** / **[Shuffle off]**: Enables or disables random play of songs.

Picture slideshow settings

- **[Rotate]**: Rotates a picture.
- **[Repeat]**: Repeats the slideshow.
- **[Shuffle on]**: Displays pictures in the slideshow at random.
- **[Shuffle off]**: Disables random display of pictures in the slideshow.
- **[Slideshow speed]**: Sets the amount of time that a picture is shown.

- **[Slideshow transition]**: Sets the transition from one picture to the next.

Browse PC network

View photos or play music and videos on TV from a PC or another storage device in your home network.

To browse your PC network, first set up the network connection; see **Set up the TVSet up a network** (see "NonPublish" on page 29).

If the network is not installed the first time you access **[Browse PC]**, the network installation starts. Follow the on-screen instructions.

Browse PC Network

In the home menu, select **[Browse PC]**, then press **OK**.

With the PC and router switched on, the TV displays the multimedia server content from your PC. With the PC content list open on screen, select the file you want to play and press **OK**.

A song, a slideshow of photos or a video starts playing.

- To pause, press **OK** again.
- To jump to the next file, press ▶|.
- To jump to the previous file, press |◀.
- To fast forward a music file, press ▶.

Press ☐ (**Options**) to access more options such as **[Play once]**, **[Repeat]**, **[Shuffle on]**/**[Shuffle off]**, **[Rotate]**.

Watch videos

Select a video in the Guide menu and press play **OK**.

- To pause the video, press pause **OK**.
- To fast forward, press ▶ once to go slowly; press ▶ twice to go fast.
- Press ▶ again for normal speed.

Press ☐ (**Options**) to change to **[Full screen]**, **[Small screen]**, **[Play once]** and more.

To exit the PC network, press ⌂ and select another activity.

Use Scenea

You can use Scenea to display a picture as wallpaper on your TV. Make sure that the location of your TV is set to **[Home]** mode.

Single-picture wallpaper

1. Press ⌂.
2. Select **[Scenea]** , then press **OK**.

The default or pre-loaded picture is displayed.

Wallpaper slideshow

Make sure the wallpaper is not yet activated.

1. Connect a USB storage device to the TV.
2. Press ⌂.
3. Select **[Scenea]**, then press **OK**.

All pictures in the USB storage device are displayed.

Note: If the sleeptimer is off, the wallpaper is displayed for 120 minutes. Otherwise, it is displayed for the duration of the sleeptimer. For more information on the sleeptimer, see **Use more of your TV > Use timers and locks > Sleeptimer** (Page 19).

Note: The file size of the picture must not be more than 1 MB.

1. Connect the USB storage device to the TV.
2. Press ⌂.
3. Select **[Browse USB]**, then press **OK**.
4. Select a picture, then press ☐.
5. Select **[Set as Scenea]**, then press **OK**.

Listen to digital radio

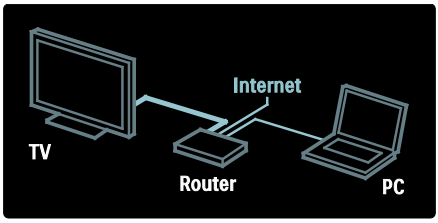
If digital broadcasting is available, digital radio channels are installed automatically during installation.

1. While watching TV, press 🕮.
2. Select **[Channel list:]**, then press **OK**.
3. In the channel list, press ☐.
4. Select **[Select list]** > **[Radio]**, then press **OK**.
5. Select a radio channel, then press **OK**.

Use widgets

What you need

Widgets are icons or display boxes which contain information such as weather, clock etc. The widgets available differ in each country. To access widgets, connect the TV to a router with a broadband connection to the Internet; see **Set up the TV > Set up a network** (see "NonPublish" on page 29).



Show widgets

Add or remove widgets

1. In the home menu, select **[Show widgets]**, then press **OK**.
2. Select the widget to add or remove, then press ☐.
3. Use the navigation buttons to select and **OK** to confirm your settings.

Show widgets

When watching TV, press the **blue button** to display widgets.

Universal access

Enable universal access

Where supported by your digital TV broadcaster, this TV allows special audio and subtitles for the hearing impaired, as well as special audio for the visually impaired.

To enable these features, you must turn on universal access in the **[Preferences]** menu.

1. Press ⌂.
2. Select **[Setup]** > **[Advanced TV settings]** > **[Preferences]** > **[Universal access]** > **[On]**, then press **OK**.

Hearing impaired

Some digital TV channels broadcast special audio and subtitles adapted for people who are hearing impaired.

To switch on hearing impaired audio and subtitles (if available)

1. While watching TV, press ☐.
2. Press the red button to select **[Hearing impaired]**.
3. Press the green button to switch on hearing impaired audio and subtitles, press the red button to switch it off.
4. Press ↩ to exit.

Tip: To verify whether a hearing impaired audio language is available, press ☐ and select **[Audio language]**. Languages with an ear icon indicate hearing impaired support.

Visually impaired

Some digital TV channels broadcast special audio adapted for people who are visually impaired. The normal audio is mixed with extra commentary.

To switch on visually impaired audio (if available)

1. While watching TV, press ☐ .
2. Press the green button to select **[Visually impaired]**.
3. Use the following buttons to select:
   - **Green** - **[Speakers]**: Hear visually impaired audio from speakers only.
   - **Yellow** - **[Headphones]**: Hear visually impaired audio from headphones only.
   - **Blue** - **[Speakers + headphones]**: Hear visually impaired audio from speakers and headphones only.
   - **Red** - **[Off]**: Turn off visually impaired audio.
4. Press ↩ to exit.

Tip: To verify whether visually impaired audio is available, press ☐ and select **[Audio language]**. Languages with an eye icon indicate visually impaired support.

Adjust volume for the visually impaired

1. In the **[Universal access]** menu, press the yellow button to select **[Mixed volume]**.
2. Press the **Navigation buttons** to move the slider up or down, then press **OK**.
3. Press ↩ to exit.

Audio feedback for the visually impaired

This feature enables audio feedback when buttons are pressed on the remote control or TV.

1. In the **[Universal access]** menu, press the blue button to select **[Key beep]**.
2. Press the green button to turn on audio feedback or press the red button to turn it off.
3. Press ↩ to exit.

4 Set up the TV

Change picture and sound settings

Settings assistant

Use the settings assistant to guide you through the picture and sound settings.
1. While watching TV, press .
2. Select **[Setup]** > **[Personalise picture and sound]**, then press **OK**.
3. Select **[Start]**, then press **OK**.
Follow the on-screen instructions to choose your preferred settings.

Smart picture settings

Use the **[Smart picture]** experience bar to access frequently-used picture settings.
1. While watching TV, press .
2. Select **[Smart picture]**, then select one of the following settings:

- **[Personal]**: Sets the TV to your personal preferences set in the **[Picture]** menus in **[Setup]**.
- **[Vivid]**: Rich and dynamic settings, ideal for daylight use.
- **[Natural]**: A natural picture setting.
- **[Cinema]**: Ideal settings for watching movies.
- **[Game]**: Ideal settings for gaming.
- **[Energy saving]**: The most energy-conscious settings. Factory standard settings.
- **[Standard]**: Adjusts picture settings to suit most environments and types of video.
- **[Photo]**: Ideal settings for viewing photos.
- **[Custom]**: Allows you to customise and store personal picture settings.

3. Press **OK** to confirm your choice.
4. Press to exit.

More picture settings

1. Press .
2. Select **[Setup]** > **[Advanced TV settings]** > **[Picture]**, then press **OK**.
3. Select a setting to adjust:

- **[Smart picture]**: Accesses pre-defined smart picture settings.
- **[Reset]**: Resets to factory default settings.
- **[Contrast]**: Adjusts the intensity of bright areas, keeping dark areas unchanged.
- **[Brightness]**: Adjusts the intensity and details of dark areas.
- **[Colour]**: Adjusts colour saturation.
- **[Hue]**: Compensates colour variations in NTSC encoded transmissions.
- **[Sharpness]**: Adjusts sharpness in the image.
- **[Noise reduction]**: Filters and reduces noise in an image.
- **[Tint]**: Adjusts the colour balance in an image.
- **[Custom tint]**: Customises tint setting.
- **[Pixel Plus HD]**: Accesses advanced settings, including **[100 Hz Clear LCD]**, **[Dynamic contrast]**, **[Dynamic backlight]**, **[MPEG artefact reduction]**, **[Colour enhancement]**, **[Perfect Natural Motion]**, **[Gamma]**.
- **[PC mode]**: Enables picture settings adjustment when a PC is connected to the TV via HDMI. If enabled, you can select **[Picture format]** > **[Unscaled]** which provides maximum detail for display of PC content.
- **[Light sensor]**: Adjusts settings dynamically to match lighting conditions.
- **[Picture format]**: Changes the picture format.
- **[Screen edges]**: Changes the picture size.
- **[Picture shift]**: Adjusts the position of the picture.

Smart sound settings

Use the **[Smart sound]** experience bar to access frequently-used sound settings.
1. While watching TV, press .
2. Select **[Smart sound]**, then select one of the following settings:

- **[Personal]**: Sets the TV to your personal preferences set in the **[Sound]** menus in **[Setup]**.
- **[Standard]**: Adjusts sound settings to suit most environments and types of audio.
- **[News]**: Applies sound settings ideally suited for spoken audio, such as the news.
- **[Movie]**: Applies sound settings ideally suited for movies.
- **[Game]**: Ideal settings for gaming.
- **[Drama]**: Applies sound settings ideally suited for drama.
- **[Sports]**: Applies sound settings ideally suited for sports.

3. Press **OK** to confirm your choice.
4. Press to exit.

More sound settings

1. Press .
2. Select **[Setup]** > **[Advanced TV settings]** > **[Sound]**, then press **OK**.
3. Select a setting to adjust:

- **[Smart sound]**: Accesses pre-defined smart sound settings.
- **[Reset]**: Resets to factory default settings.
- **[Bass]**: Adjusts the bass level.
- **[Treble]**: Adjusts the treble level.
- **[Surround]**: Enables spatial sound.
- **[Headphones volume]**: Adjusts headphone volume.
- **[Auto volume leveling]**: Automatically reduces sudden volume changes, for example, when switching channels.
- **[Balance]**: Adjusts the balance of the left and right speakers to best suit your listening position.

Reset to factory settings

Resetting your TV to factory settings restores default picture and sound settings. Channel installation settings remain the same.

1. While watching TV, press .
2. Select **[Setup]** > **[Advanced TV settings]** > **[Factory settings]**, then press **OK**.

TV settings are reset back to the factory default.

Start a TV demo

Start a demo to find out more about your TV's features.
Note: Demos are not supported on MHEG channels.
1. While watching TV, press .
2. Select **[Setup]** > **[TV demonstrations]**, then press **OK**.
3. Select a demo, then press **OK**.
4. Press to exit the demo.

Change channel settings

Reorder channels

After installation, you may want to reorder the channel list to suit your preference.
1. While watching TV, press .
2. Select **[Channel list]**, then press **OK**.
3. In the channel list, press .
4. Select **[Reorder]**, then press **OK**.
5. Select the channel to reorder, move it to the desired location, then press **OK**.
6. Select **[Insert]** to insert the channel into the desired location, **[Swap]** to swap location with another channel or **[Cancel]** to cancel the reorder.
7. Press **OK** to activate.

Rename channels

After installation, you may want to rename channels to suit your preference.
1. While watching TV, press .
2. Select **[Channel list]**, then press **OK**.

3. In the channel list, press .
4. Select **[Rename]**, then press **OK**.
5. In the entry screen that appears, press the **Navigation buttons** or **Numeric buttons** to edit the name, then press **OK**.
6. Once complete, press the **Navigation buttons** to select **[Done]**.
- To clear the entry, select **[Clear]**.
- To cancel, select **[Cancel]**.

7. Press **OK** to confirm your choice.
8. Press to exit.

Hide or unhide channels

Hide channels

Hide channels from the channel list, to prevent unauthorised access.
1. While watching TV, press .
2. Select **[Channel list]**, then press **OK**.
3. In the channel list, select the channel to hide, then press .
4. Select **[Hide channel]**, then press **OK**.

The channel is hidden.

Unhide channels

1. While watching TV, press .
2. Select **[Channel list]**, then press **OK**.
3. In the channel list, press .
4. Select **[Show hidden channels]**, then press **OK**. Hidden channels appear in the channel list, but without channel information displayed.
5. Select the channel to unhide, then press .
6. Select **[Unhide channel]**, then press **OK**.

Repeat steps 5 and 6 to unhide other channels.

Update channel list

When the TV was switched on for the first time, a full installation of channels was performed.
You can set the TV to add or remove digital channels automatically. You can also manually start the channel update.

Automatic update

To set the TV to update digital TV channels automatically, leave the TV in standby mode. Once a day, the TV updates earlier found channels and stores new channels. Empty channels are removed from the channel list.

If a channel update is performed, a message appears at startup.

If you do not want this message to appear

1. Press .
2. Select **[Setup]** > **[Advanced channel settings]** or **[Advanced satellite settings]** > **[Channel installation]** > **[Channel update message]** > **[Off]**, then press **OK**.

To disable automatic updates

1. In the **[Channel installation]** menu, select **[Channel update in standby]** > **[Off]**, then press **OK**.

Manual update

Update channels yourself at any time using the manual update.
1. In the **[Channel installation]** menu, select **[Automatic installation]**, then press **OK**.
2. Start the update and select **[Update channels]**. The update may take a few minutes.

Reinstall channels

Automatic reinstall

When the TV was switched on for the first time, a full installation of channels was performed. You can redo this full installation again to set your language, country and install all available TV channels.

1. Press .
2. Select **[Setup]** > **[Automatic channel search]** or **[Automatic satellite search]**, then press **OK**. **[Automatic satellite search]** is only available if the TV supports DVB-S.
3. Follow the on-screen instructions to complete the channel installation. When channel installation is complete, **[Done]** is selected and a list of installed channels appears.
4. Press **OK**.

Notes

- During installation, leave **[Settings]** unchanged unless your digital provider provides you with specific values to enter.

- When digital TV channels are found, the list of installed channels may display empty channel numbers. You can rename, reorder or uninstall these channels.

Access DVB-C or DVB-T channels

If you have installed both DVB-C and DVB-T channels, you have to switch to the respective network to watch channels on that network.

1. While watching TV, press .
2. Select **[Setup]** > **[Advanced channel settings]** or **[Advanced satellite settings]** > **[Channel installation]** > **[Antenna or Cable DVB]** > **[Air (terrestrial)]** to access free-to-air DVB-T channels; or **[Cable]** to access DVB-C channels.
3. Press **OK** to confirm your choice.
4. Press to exit. The TV switches to the selected network.

Manual reinstall

This section describes how to search and store analogue TV channels manually.

Step 1: Select your system

Note: Skip this step if your system settings are correct.

1. While watching TV, press .
2. Select **[Setup]** > **[Advanced channel settings]** or **[Advanced satellite settings]** > **[Channel installation]** > **[Analogue: Manual installation]** > **[System]**, then press **OK**.
3. In the list that appears, select the system for your country or region, then press **OK**.

Step 2: Search and store new TV channels

1. In the **[Analogue: Manual installation]** menu, select **[Find channel]**, then press **OK**.
2. Press:
   - The **Navigation buttons** or **Numeric buttons** to manually enter the channel frequency.
   - The **Navigation buttons** to select **[Search]**. Press **OK** to automatically search for the next channel.
3. When the correct channel frequency is entered, select **[Done]**, then press **OK**.
4. Select **[Store current channel]** to store the fine tuned channel using the current channel number, or select **[Store as new channel]** to store it as a new channel number.

Fine tune digital channels

If you receive digital TV broadcasts (DVB), you can verify the quality and signal strength of a channel.
If the reception is poor, you can, for example, reposition your antenna or satellite dish, to try to improve the reception. For best results though, always contact a professional installer.

1. Select the channel to test, then press .
2. Select **[Setup]** > **[Advanced channel settings]** or **[Advanced satellite settings]** > **[Channel installation]** > **[Digital: Reception test]** > **[Search]**, then press **OK**.

The digital reception quality is shown for this channel. If the reception is poor, reposition your antenna or satellite dish and repeat the procedure.

Notes

- You can enter a specific digital frequency yourself.
  Select the frequency, and change it with the **Navigation buttons**. Select **[Search]** to verify the frequency.
- If you receive the channel with DVB-C, the options **[Symbol rate mode]** and **[Symbol rate]** are available.
  In **[Symbol rate mode]**, select **[Automatic]** unless your cable provider supplies you with a specific symbol rate value. Enter this supplied value in **[Symbol rate]** using the **Numeric buttons**.

Fine-tune analogue channels

If the reception of an analogue TV channel is poor, try fine tuning the TV channel.

1. Press .
2. Select **[Setup]** > **[Advanced TV settings]** or **[Advanced satellite settings]** > **[Channel installation]** > **[Manual installation]** > **[Fine tune]**, then press **OK**.

3. Press ▲ or ▼ to fine tune the channel, then select **[Done]** when complete.
4. Select **[Store current channel]** to store the fine tuned channel using the current channel number, or select **[Store as new channel]** to store it as a new channel number.

Change language settings

Audio, subtitle, teletext languages

Digital TV channels may stream several audio, subtitle and teletext languages with a broadcast. Set preferred languages when multiple languages are available.

1. Press .
2. Select **[Setup]** > **[Advanced channel settings]** or **[Advanced satellite settings]** > **[Language]** > **[Primary audio]** / **[Primary subtitles]** / **[Primary teletext]**.
3. Select a language from the list, then press **OK**.
4. Press to exit.

Tip: Set a secondary language in the same menu. You receive this language if the primary language is unavailable.

Menu language

1. While watching TV, press .
2. Select **[Setup]** > **[Advanced TV settings]** > **[Preferences]** > **[Menu language]**.
3. Select a menu language from the list, then press **OK**.

Set up a network

Benefits

PC network

If the TV is connected to your PC network, you can play photos, music and movies from a computer or storage device in that network.

Once the network is installed, select **[Browse PC]** in the home menu to view PC content.

Net TV

If the TV is connected to the PC network, which is connected to the Internet, you can link up your TV to Net TV. The Net TV start page offers you movies, pictures, music, infotainment, games and much more, all set up for your TV screen.

Once the network is installed, select **[Browse Net TV]** in the home menu to open the Net TV start page.

What you need

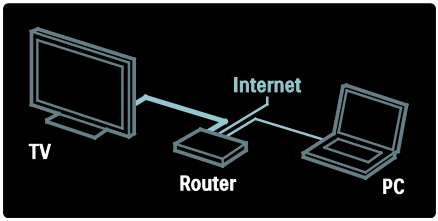
WARNING

This TV complies with the EMC directive only when you use a shielded Cat5 Ethernet cable.

To connect the router to your TV, we strongly recommend that you use an Ethernet cable that is shorter than 3 metres.

To connect the TV to a PC network and the Internet, you need a router in your PC network. Set the router to DHCP On. Connect the router to the TV with a network (Ethernet) cable.
To enjoy Net TV, connect the TV to a router with a high-speed connection to the Internet.

You can also connect this TV to a PC network wirelessly via an optional wireless USB adapter. Check with your local retailer for purchase details.



The PC network feature is DLNA 1.5 certified. You can use Microsoft Windows XP or Vista, Intel Mac OSX or Linux on your computer.

To share PC content on your TV, you need recent media server software on your computer. Windows Media Player 11 or similar.

The media server software needs to be set to share files with your TV.

For a list of supported media server software, read **Technical data > Multimedia** (see "NonPublish" on page 57).

Note: If the apparatus does not return to DLNA mode due to electrostatic discharge, user intervention is required.

Wired installation

Connect the router to the TV using a network cable and switch on the router before you start the network installation.

To start the wired network installation, close the user manual, press ⌂ > **[Setup]** > **[Connect to network]** and press **OK**.

Follow the instructions on screen to install the wired network.

The TV constantly searches for a network connection.

If asked, agree to the End User Licence Agreement. Find the latest End User Licence Agreement at (http://www.philips.com/).

Network settings

The TV's network settings that are used to connect to your router are standard and set to automatic. This ensures easy connection with any available network.

If you have problems with the network connection, you might want to adjust the settings so that they are appropriate for your home network.
If you are unsure, ask someone with knowledge of network settings to help you.

To set specific network settings, press ⌂ > **[Setup]** > **[Advanced network settings]** and press **OK**.

PC media server settings

TVersity v.0.9.10.3 (Microsoft Windows)

Enable media sharing

In Microsoft Windows, start TVersity. Click the **Settings** tab and click the **Start Sharing** button.

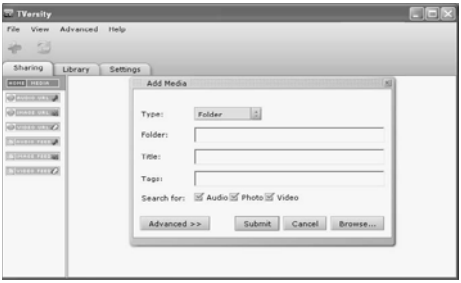
A pop-up window tells you that the media server service is started. Click **OK**.

Set folders for media sharing

In TVersity, click the **Sharing** tab.

Click the green plus icon and select **Add folder**.

In the **Add** media pop-up window, click the **Browse** button.



In the **Browse for Folder** window, select a folder with music, photos or videos that you want to share and click **OK**.

Twonky Media v4.4.2 on Macintosh OS X

Enable media sharing

In Mac OS X, start **Twonky Media**. Twonky Media appears.

In the **Basic Setup** box, click **Clients/Security**. **Clients/Security** settings appear.

Click **Enable sharing for new clients automatically**, then click **Save Changes**. Media sharing is enabled.

Add folders for media sharing

In the **Basic Setup** box, click **Sharing**. Sharing settings appear.

Click **Browse** to add a folder location. Click **Add new content directory** to add more folders.

When all folders are added, click **Save changes** then click **Rescan content directories.** Media files are ready to be accessed from the TV.

Microsoft Windows Media Player 11

Note: The instructions are applicable to both Microsoft Windows XP and Vista.

Enable media sharing

In Microsoft Windows, start Windows Media Player 11. Windows Media Player appears.

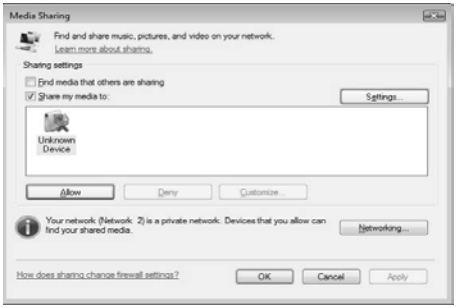
In the Media Sharing window, tick **Share my Media** and click **OK**.

Media Sharing
Find and share music, pictures, and video on your network
Learn about sharing Online
Sharing settings
Find media that others are sharing
Share my media
Your network (Network 2) is a private network. Devices that you allow can find your shared media.
Networking...
How does sharing change firewall settings?
OK
Cancel

If no network connection is found and you are unable to tick this box, click the **Networking button** to show the **Network and Sharing Centre** window...

Set **Network discovery** to **On**.
Set **File sharing** to **On**.
Go back to the **Media Sharing** window in **Windows Media Player** and tick the **Share My Media** box. Click **OK**.

When the TV is connected by the router to the PC and everything is switched on, the **Media Sharing** window will detect the TV as an **Unknown Device**. Select the device and click **Allow**.



To change particular settings on media sharing, open the **Settings** window. When the device icon (the TV) is checked with a green tick, click **OK**.

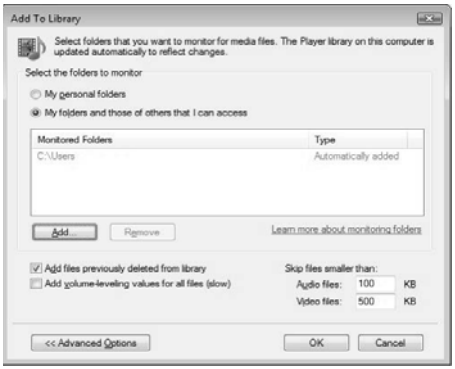
Set folders for sharing

In Windows Media Player, select **Library** from the menu and select **Add to Library**.

In the **Add to Library** window, select **My folders and those of others that I can access.**and click the Advanced Options button.

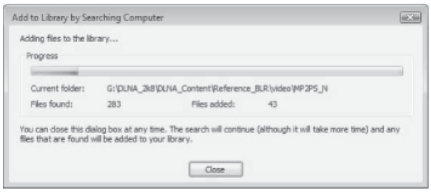
Add To Library
Select folders that you want to monitor for media files. The Player library on this computer is updated automatically to reflect changes.
Select the folders to monitor
My personal folders
My folders and those of others that I can access
Learn more about monitoring folders
<< Advanced Options
OK
Cancel

With **Advanced Options** open, you can add specific folders to the list to share and click **Add.**


Add To Library
Select folders that you want to monitor for media files. The Player library on this computer is updated automatically to reflect changes.
Select the folders to monitor
My personal folders
My folders and those of others that I can access
Monitored Folders
Type
C:\Users
Automatically added
Add...
Remove
Learn more about monitoring folders
Add files previously deleted from library
Add volume-leveling values for all files (slow)
Skip files smaller than:
Audio files: 100 KB
Video files: 500 KB
<< Advanced Options
OK
Cancel

In the **Add Folder** window, select a folder with music, photos or videos that you want to share with other devices and click **OK**.

In the **Add To Library** window, the newly added folder is shown. You can add more folders to share. Click the **OK** button to add the files to the library.


Add to Library by Searching Computer
Adding files to the library...
Progress
Current folder:
Files found: 283
Files added: 43
You can close this dialog box at any time. The search will continue (although it will take more time) and any files that are found will be added to your library.
Close

You can now enjoy music, photos and videos on your TV.

Change other settings

Green eco settings

1. While watching TV, press the green button.
2. Select one of the following settings, then press **OK**:

- **[Energy saving]**: Applies a combination of picture settings to reduce energy consumption.
- **[Mute screen]**: Turns off the TV display. 'Muting' the screen saves energy if you just want to listen to audio from the TV.
- **[Light sensor]**: To save energy, the built-in ambient light sensor lowers the brightness of the TV screen when the surrounding light darkens.

Audio lip sync

Turn on digital audio lipsync to automatically sync the image on your TV to audio from a connected Home Theatre System.

1. While watching TV, press ⌂.
2. Select **[Setup]** > **[Advanced TV settings]** > **[Preferences]** > **[Audio Out delay]** > **[On]**, then press **OK**.

TV clock

You can display a clock on the TV screen. The clock displays the current time using time data received from your TV service operator.

Display the TV clock

1. When watching TV, press .
2. Select **[Clock]**, then press **OK**. The clock displays on the TV screen.

Note: To disable the clock, repeat the procedure.

Change the clock mode

By default, the clock mode is set to **[Automatic]**, syncing the TV clock to Coordinated Universal Time (UTC). If your TV cannot receive UTC transmissions, set the clock mode to **[Manual]**. **[Country dependent]** applies UTC and gives you the option of setting **[Daylight saving]**.

1. While watching TV, press .
2. Select **[Setup]** > **[Advanced TV settings]** > **[Preferences]** > **[Clock]** > **[Auto clock mode]** > **[Automatic]**, **[Manual]** or **[Country dependent]**, then press **OK**.

Enable or disable daylight saving

If clock mode is set to **[Country dependent]**, enable or disable daylight saving if required for your time zone.

1. In the **[Clock]** menu, select **[Daylight saving]** > **[Daylight saving time]** or **[Standard time]**, then press **OK**. Daylight saving is enabled or disabled for your time zone.

TV location

A range of TV settings are applied to suit the location of the TV.

Shop or home mode

The flexibility to change settings is limited if the TV location is set to **[Shop]** mode. Set the TV location to **[Home]** mode to access all TV settings.

1. While watching TV, press .
2. Select **[Setup]** > **[Advanced TV settings]** > **[Preferences]** > **[Location]** > **[Home]** or **[Shop]**, then press **OK**.

Stand mount or wall mount

Specific TV settings are applied to suit the mounting location of the TV.

1. In the **[Preferences]** menu, select **[TV placement]** > **[On a TV stand]** or **[Wall mounted]**, then press **OK**.

Update the TV software

Check software version

1. Press .
2. Select **[Setup]** > **[Update software]** then **[Advanced software update]** > **[Current software info]**, then press **OK**.

The version of the current software is displayed.

From the Internet

If your TV is connected to a router that is connected to the Internet, you can update the TV software directly from the Internet. You need a high speed Internet connection.

Press > **[Setup]** > **[Update now]** and press **OK**.

Select **[Internet]** and press **OK**. Follow the instructions on screen.

When the update is done, the TV switches off and back on again automatically. Wait for the TV to switch back on; do not use the **Power switch** on the TV.

If the TV is connected to the Internet, the TV displays a message about the availability of new software at start-up.

With USB

Before performing this procedure be sure to:

- Set aside some time to complete the entire update.
- Have available a USB storage device with at least 256MB of storage space.
- Have access to a computer with a USB port and internet access.

1. Press ⌂.
2. Select **[Setup]** > **[Update software]**, then press **OK**. The update assistant starts. Follow the on-screen instructions to complete the update.

Note: If you already have the upgrade file downloaded onto a USB storage device, connect it to the TV. Then, select **[Setup]** > **[Update software]** followed by **[Advanced software update]** > **[Local updates]**.

With digital broadcast

If available, your TV can receive software updates via digital broadcasts.
If an update is available, a message appears prompting you to update the software. We strongly recommend that you update the software when prompted.

Reinstall the TV

Reinstalling your TV resets all picture and sound settings, and reinstalls all TV channels.

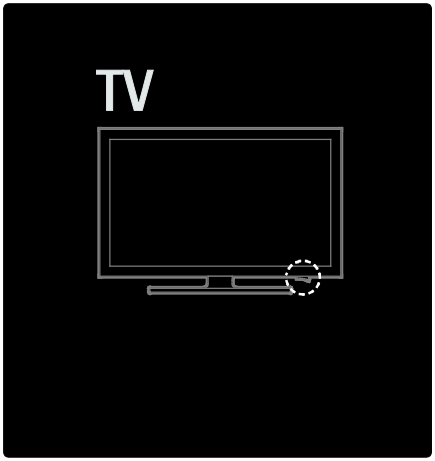
1. Press ⌂.
2. Select **[Setup]** > **[Advanced TV settings]** > **[Reinstall TV]**, then press **OK**.
3. Follow the on-screen instructions.

5 Connect the TV

First connections

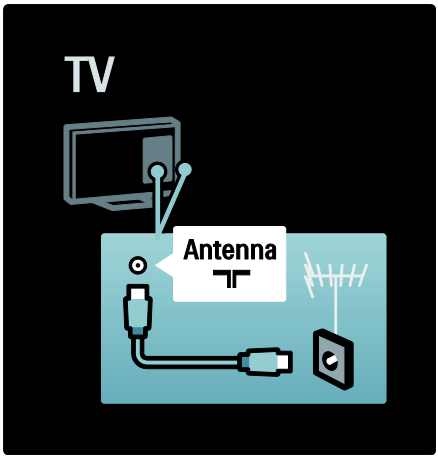
Power

Be sure that the power plug in the wall socket is accessible at all times. When disconnecting the power cable, always pull the plug, never the cable.
Although this TV has a very low standby power consumption, switch off the TV using the power switch on the bottom of the TV if you do not use the TV for a long time.



Antenna

Locate the antenna connector at the back of the TV. Insert the antenna cable securely into the antenna connector.
Note: To receive DVB-S broadcasts, insert the antenna cable into the **SAT** (DVB-S) connector on the side of the TV. This is available on certain models only.



About cables

Overview

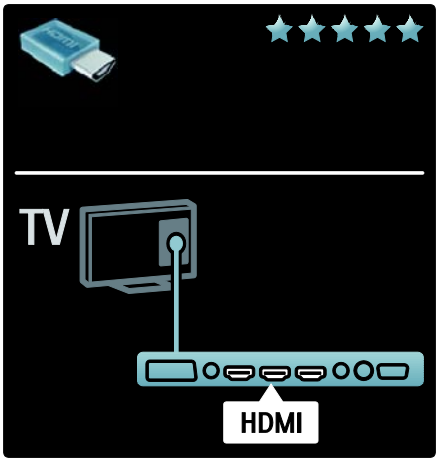
Before you connect devices to the TV, verify which connectors are available on the device. Connect the device to the TV with the highest quality connection available. Good quality cables ensure a good transfer of picture and sound.

The connections shown in this user manual are recommendations only. Other solutions are possible.
Tip: If your device only has composite/RCA connectors, use a SCART-cinch adapter to connect the device to a SCART connector on the TV.

HDMI

An HDMI connection has the best picture and sound quality.

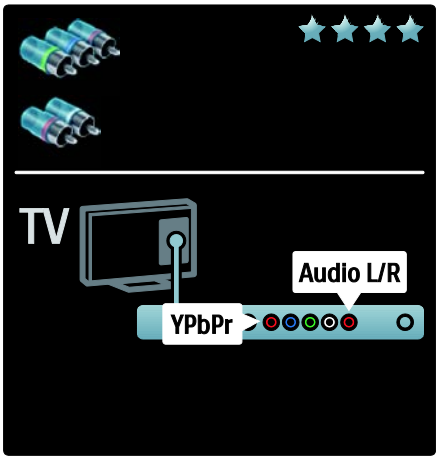
- One HDMI cable combines video and audio signals. Use HDMI for High-Definition (HD) TV signals and to enable EasyLink.
- The HDMI ARC connector on the TV features HDMI ARC functionality. This allows output of TV audio to an HDMI ARC-compliant device.
- Do not use an HDMI cable longer than 5 metres/16.4 feet.



Y Pb Pr

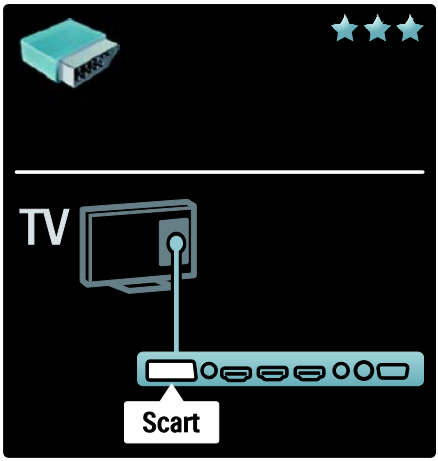
Use the Component Video Y Pb Pr connection together with an Audio Left and Right connection for sound.

Match the Y Pb Pr connector colours with the cable plugs when you connect. Y Pb Pr can handle High Definition (HD) TV signals.



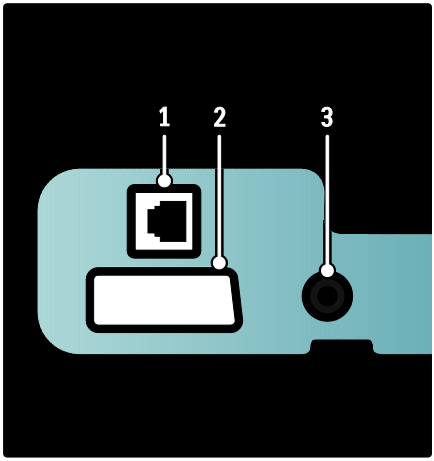
SCART

A SCART cable combines video and audio signals. SCART connectors can handle RGB video signals but cannot handle High Definition (HD) TV signals.

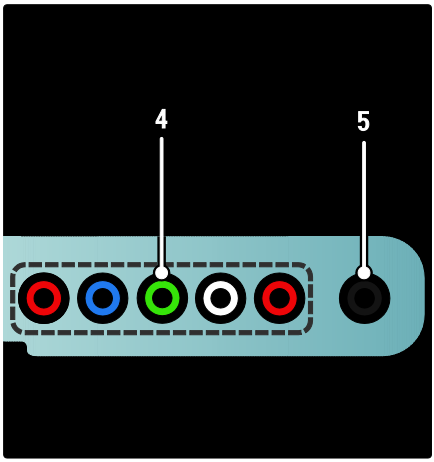


TV connectors overview

Rear

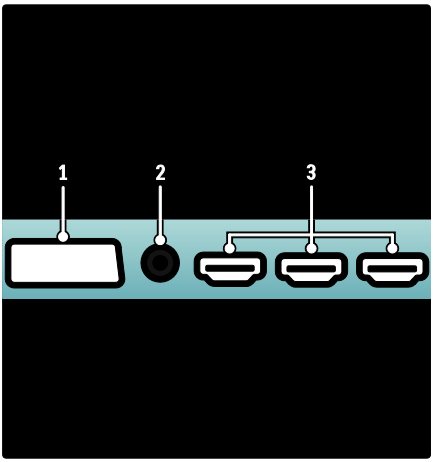


1.NETWORK: Data input from a network.
2. EXT 2 (SCART): Analogue audio and video input from analogue or digital devices such as DVD players or game consoles.
3. SERV. U: For use by service personnel only.

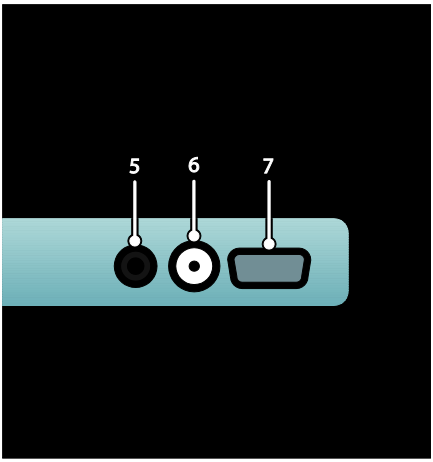


4.EXT 3 Component (Y Pb Pr): Analogue audio and video input from analogue or digital devices such as DVD players or game consoles.
5. 🎧 : Stereo audio output to headphones or earphones.

Bottom

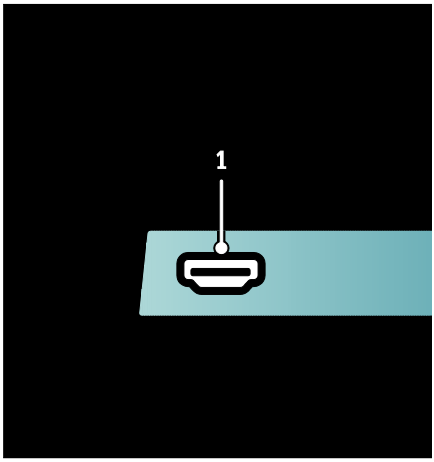


1. EXT 1 (SCART): Analogue audio and video input from analogue or digital devices such as DVD players or game consoles.
2. DIGITAL AUDIO OUT: Digital audio output to home theatres and other digital audio systems.
3. HDMI: Digital audio and video input from high-definition digital devices such as Blu-ray players.
4.HDMI ARC: In addition to normal HDMI functionality, outputs TV audio to an HDMI ARC-compliant device, such as a home theatre system.



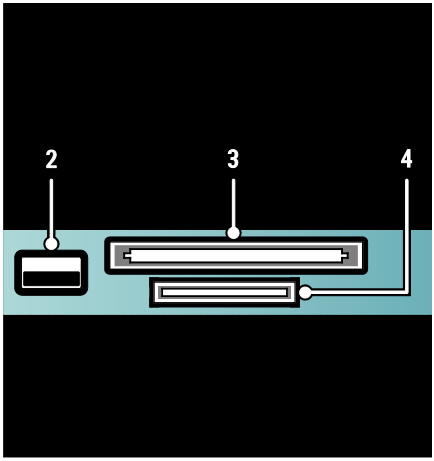
5.AUDIO IN: Audio input from a computer.
6. ANTENNA: Signal input from an antenna, cable or satellite.
7.VGA: Video input from a computer.

Side



1. 1. **HDMI**: Digital audio and video input from high-definition digital devices such as Blu-ray players.

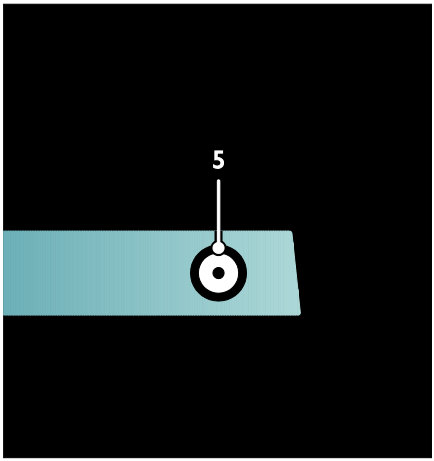
...



2. USB: Data input from USB storage devices.

3.CI (Common Interface): Slot for a Conditional Access Module (CAM).

4. SD CARD: Slot for an SD memory card.

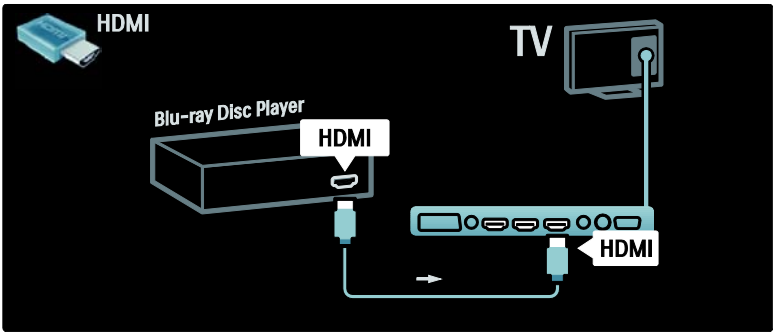


5. SAT (DVB-S): Digital signal input from DVB-S broadcasts. Available on certain models only.

Connect devices

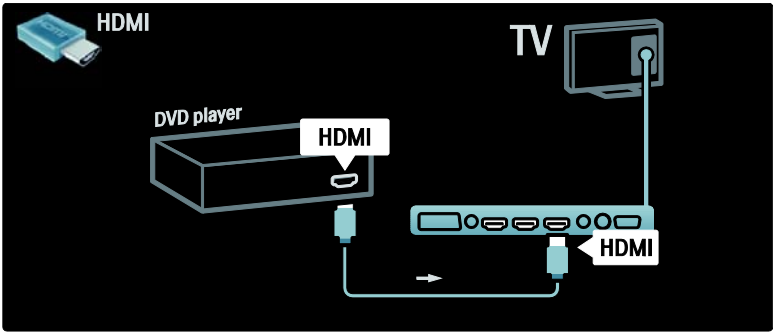
Blu-ray disc player

Use an HDMI cable to connect the Blu-ray disc player to an HDMI connector on the bottom of the TV.



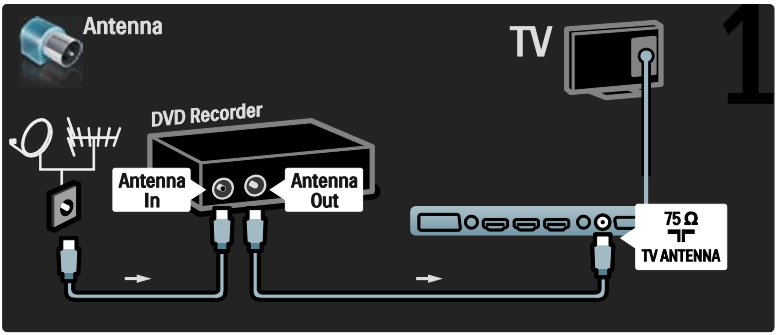
DVD player

Use an HDMI cable to connect the DVD player to an HDMI connector on the bottom of the TV.

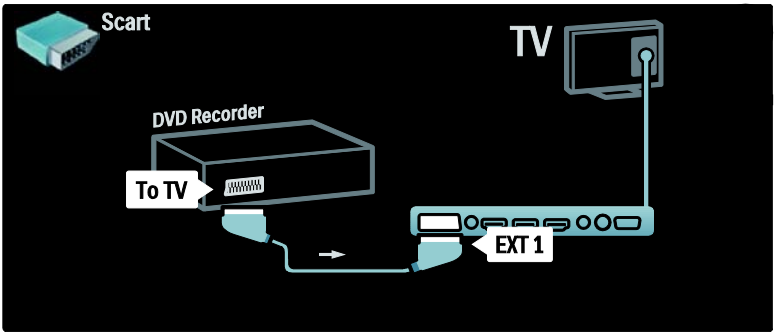


DVD-Recorder

First, use two antenna cables to connect the antenna to the DVD recorder and the TV.

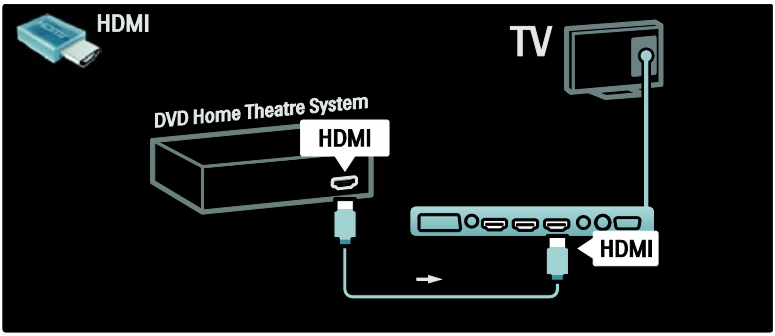


Finally, use a SCART cable to connect the DVD Recorder to a SCART connector on the bottom of the TV.

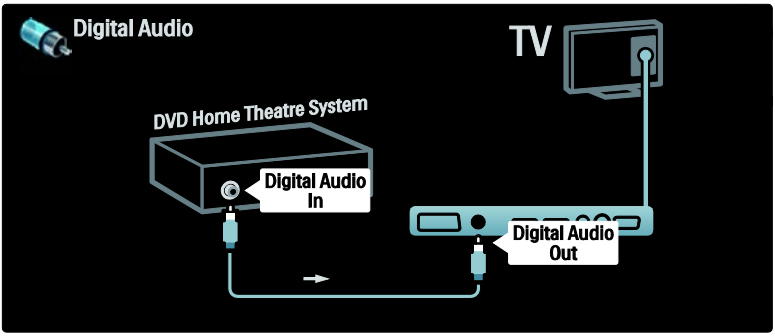


Home Theatre System

First, use an HDMI cable to connect the device to the TV.



Finally, use a digital audio cinch cable to connect the device to the TV or, alternatively, use the analogue Audio Out L/R.



Audio Out L/R

If there is no digital audio output on the home theatre, you can use the TV's analogue Audio Out L/R connection.

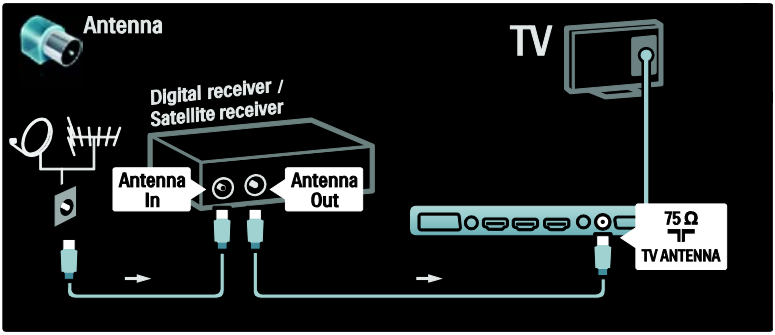
Audio and Video synchronisation (sync)

If the sound does not match the video on screen, you can set a delay on most home theatres to match the sound and video.

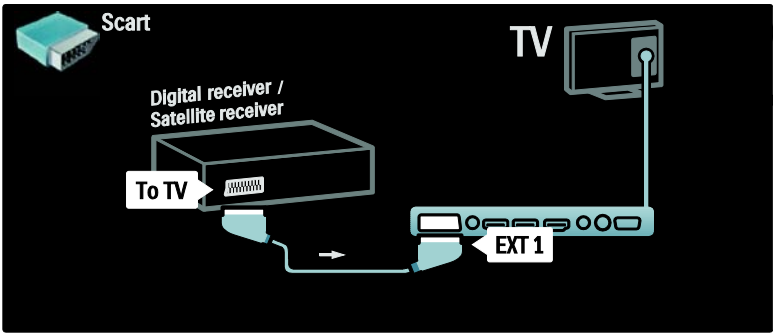
Do not connect the audio signal from a DVD player or other device directly to the home theatre. Always lead the sound through the TV first.

Dig. receiver/satellite

First, use two antenna cables to connect the antenna to the receiver and the TV.

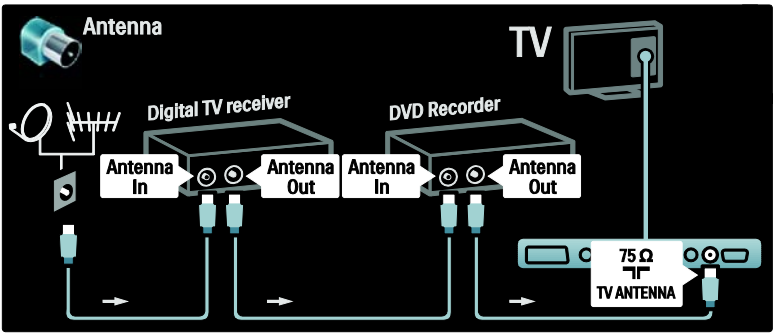


Finally, use a SCART cable to connect the receiver to the back of the TV.

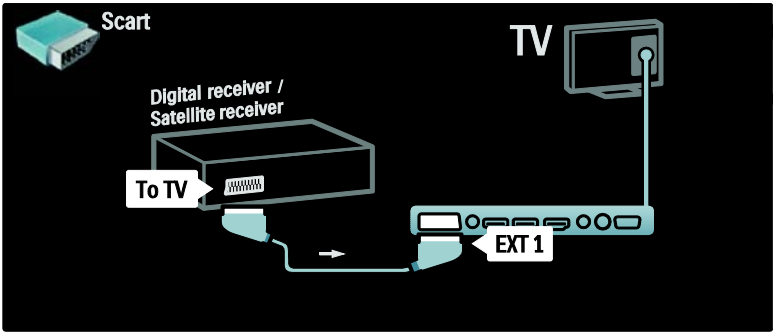


Dig. receiver and DVD-R

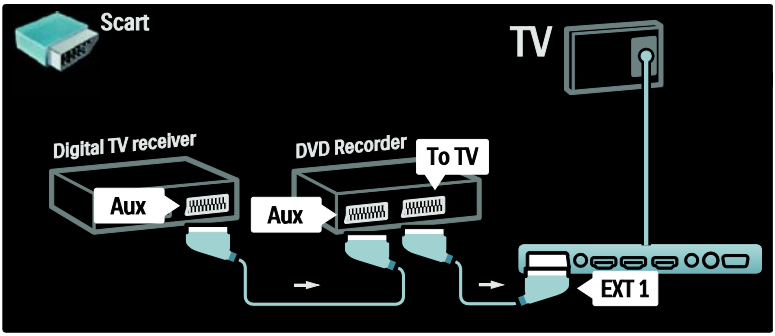
First, use three antenna cables to connect the digital receiver and the DVD Recorder to the TV.



Then use a SCART cable to connect the digital receiver to the TV.

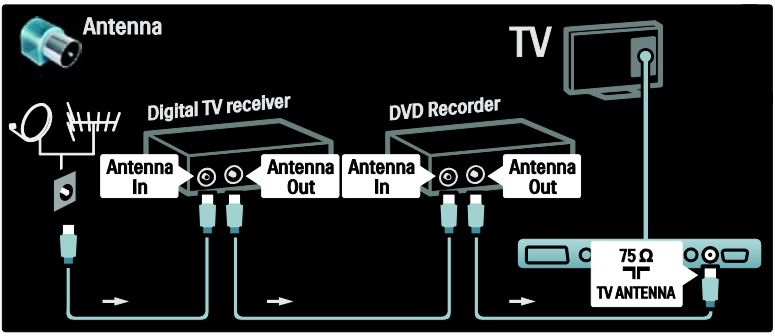


Finally, use two SCART cables to connect the two devices and the TV.

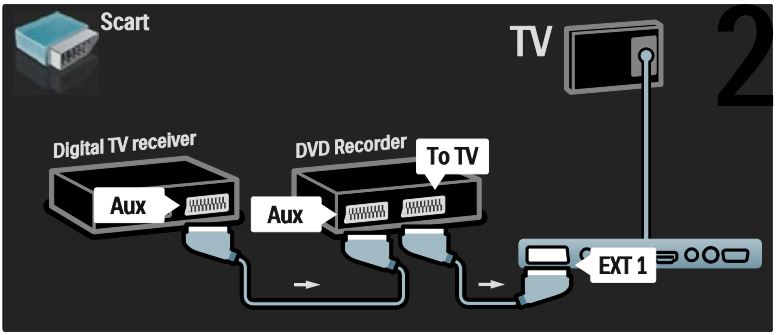


Dig. receiver, DVD-R and HTS

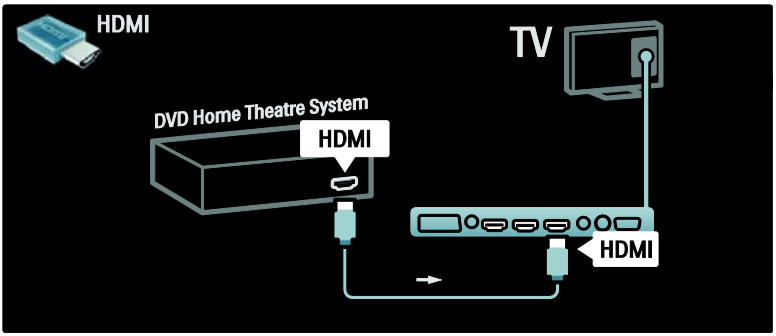
First, use three antenna cables to connect the two devices and the TV.



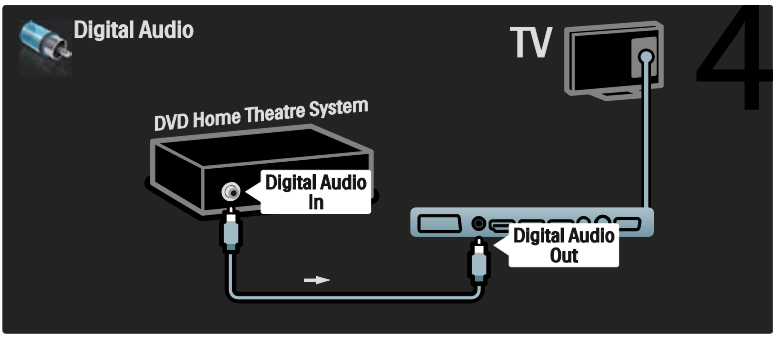
Then use two SCART cables to connect the digital receiver to the DVD Recorder and the DVD Recorder to the TV.



Then use an HDMI cable to connect the Home Theatre System to the TV.

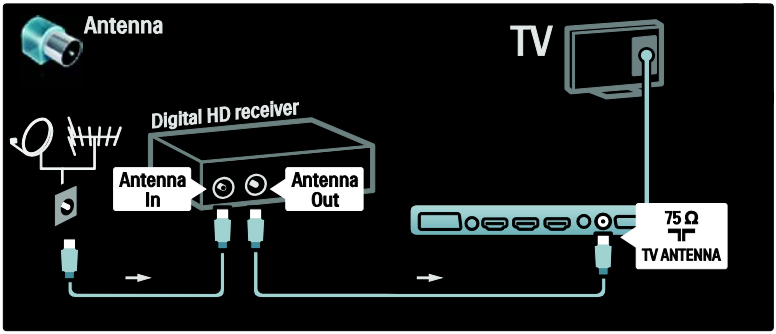


Finally, use a digital audio cinch cable to connect the Home Theatre System to the TV.

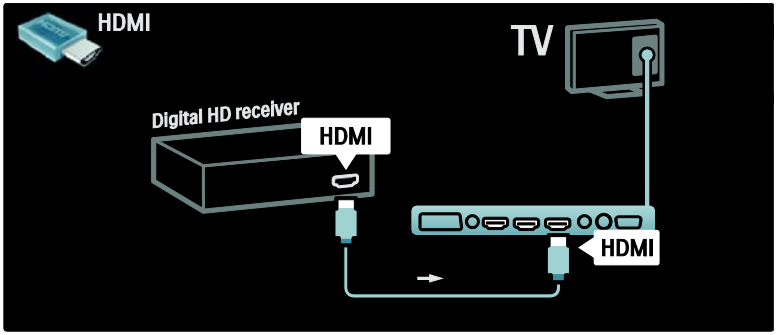


Dig. HD receiver

First, use two antenna cables to connect the Digital HD receiver to the TV.



Use an HDMI cable to connect the Digital HD receiver to the TV.



Connect more devices

Game console

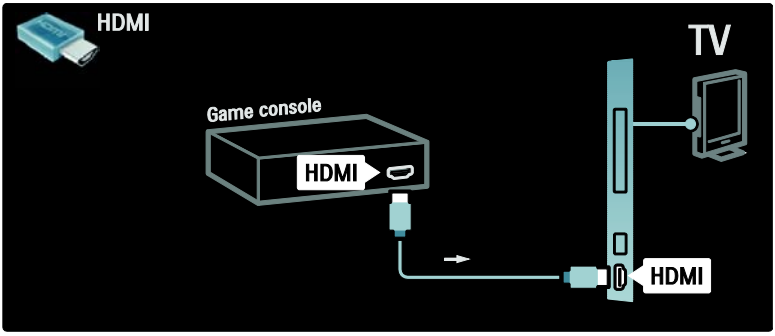
The most practical connections for a game console are at the side of the TV. However, connectors are available at the back of the TV if needed.

Enable game mode

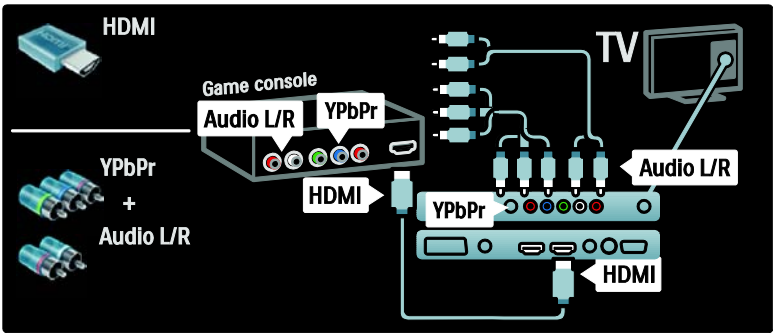
To prevent picture delay, set the TV to **[Game]** mode.

1. Press ▮▮▮.
2. Select **[Smart picture]** > **[Game]**, then press **OK**.
3. Press ↩ to exit.

The most practical connections for a game console are at the side of the TV.

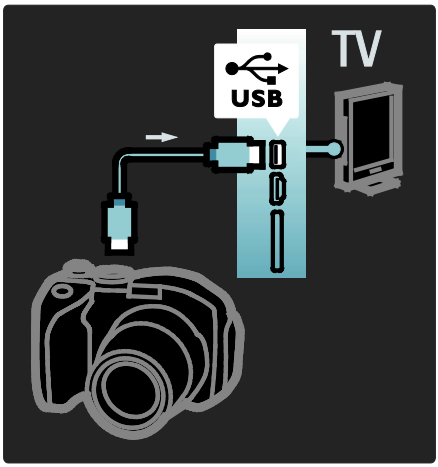


If you cannot use the side connector, use an HDMI or the EXT3 (YPbPr and Audio L/R) cable to connect the game console to the back of the TV.



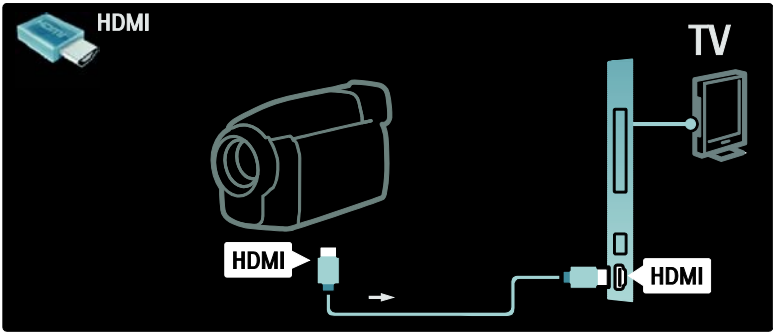
Dig. camera

To view pictures on your digital camera, connect it to the USB connection at the side of the TV and switch it on. If the content of your camera does not appear automatically, you may need to enable Picture Transfer Protocol (PTP) on the camera. Refer to the camera's user manual for instructions.

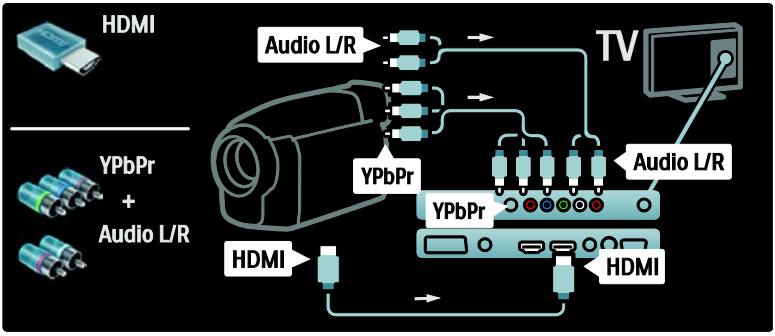


Dig. camcorder

The most practical connection for a camcorder is at the side of the TV.



If you cannot use the side connector, use an HDMI or the EXT2 (YPbPr and Audio L/R) cable to connect the camcorder to the back of the TV.



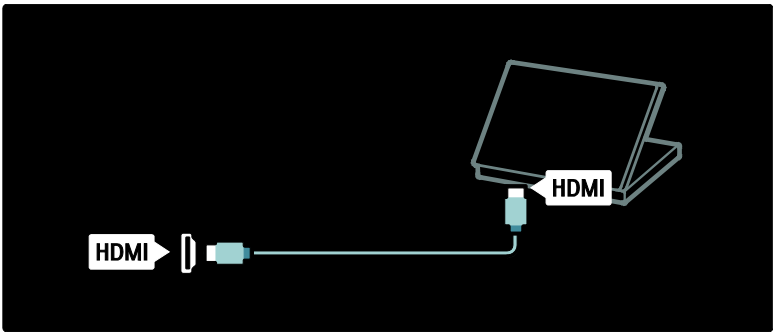
Channel decoder

Before using a SCART digital channel decoder, select the channel to decode and assign the decoder to the SCART connector.
1. Press .
2. Select **[Setup]** > **[Advanced channel settings]** or **[Advanced satellite settings]** > **[Channel installation]** > **[Decoder]** > **[Channel]**.
3. Set the channel you want to decode.
4. Select **[Status]**, then the location of the decoder.
5. Press **OK**.

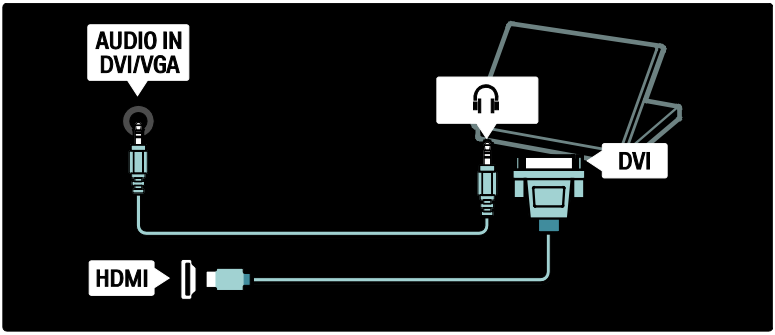
PC

Connect a computer using one of the following cables:

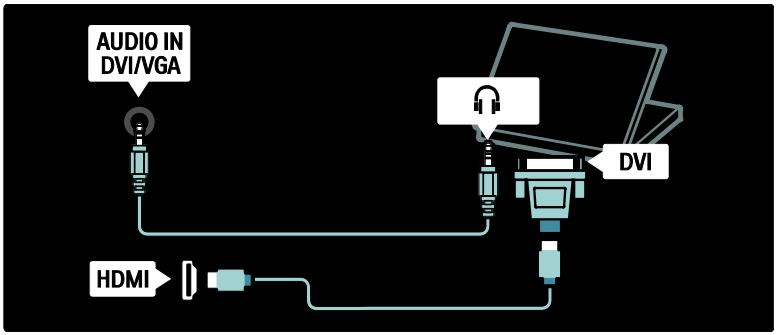
HDMI cable



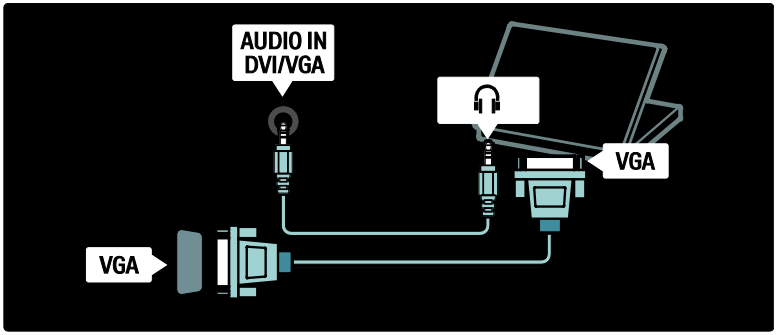
DVI-HDMI cable



HDMI cable and HDMI-DVI adapter



VGA cable



Use Philips EasyLink

Enable or disable EasyLink

Philips EasyLink provides several features that enable you to control devices that are connected via HDMI. Connected devices must support the HDMI-CEC standard, and must be properly configured for EasyLink to work.

Note: HDMI-CEC functionality is known by other names on other brands. Some examples are Anynet (Samsung), Aquos Link (Sharp) or BRAVIA Sync (Sony). Not all brands are fully compatible with Philips EasyLink.

To enable or disable EasyLink

Note: Do not enable Philips EasyLink if you do not intend to use it.

1. Press .
2. Select **[Setup]** > **[Advanced TV settings]** > **[EasyLink]** > **[On]** or **[Off]**, then press **OK**.

EasyLink features

With Philips EasyLink enabled, the following features are available:

One-touch play

When you play content from an HDMI-CEC compliant device, the TV switches on from standby, and switches to the correct source.

One-touch standby

When you connect your TV to an HDMI-CEC compliant device, pressing on the TV remote control switches the TV and all connected HDMI devices to standby mode.

System audio control

When you connect your TV to, for example, an HDMI-CEC compliant Home Theatre System (HTS), your TV speakers automatically mute and audio from the TV plays through the HTS.

For more information about system audio control and other types of TV speaker configurations, see **Connect the TV > Use Philips EasyLink > TV speakers** (Page 51).

EasyLink Remote Control

EasyLink Remote Control allows you to control HDMI-CEC compliant devices using your TV remote control. To enable EasyLink Remote Control, see **Connect the TV > Use Philips EasyLink > Enable or disable EasyLink Remote Control** (Page 50).

Pixel Plus Link

Connected Philips EasyLink devices may apply their own picture quality processing to a video, before streaming it to the TV. This may interfere with the image processing of the TV. Enable Pixel Plus Link to discard picture quality processing from connected Philips EasyLink devices.

To enable Pixel Plus Link

1. Press .
2. Select **[Setup]** > **[Advanced TV settings]** > **[EasyLink]** > **[Pixel Plus link]** > **[On]**.
3. Press **OK** to activate.

Auto subtitle shift

Auto subtitle shift displays subtitles from Philips EasyLink compliant Home Theatre Systems over the video image on your TV. The video image is thus stretched across the whole of your TV display, without the need to create a separate subtitle bar at the bottom of the screen.

To enable auto subtitle shift

1. Press .
2. Select **[Setup]** > **[Advanced TV settings]** > **[EasyLink]** > **[Auto subtitle shift]** > **[On]**.
3. Press **OK** to activate.

Audio only mode

Audio only mode enables you to play audio from a connected Philips EasyLink device through the TV speakers while the TV is in standby. If available, audio only mode is triggered from the connected Philips EasyLink device; accept the prompt on the TV to enable audio only mode.

Enable or disable EasyLink Remote Control

Caution: This is an advanced setting. Verify that all connected HDMI-CEC compliant devices support this setting. Devices that do not support this setting will not respond to commands from the TV remote control.

1. Press .
2. Select **[Setup]** > **[Advanced TV settings]** > **[EasyLink]** > **[EasyLink Remote Control]** > **[On]** or **[Off]**.
3. Press **OK** to activate.

Notes:

- If you cannot exit from the connected device's menu, press .
- To switch back to TV control, press and select **[Watch TV]**.
- To control another device, press and select the device from the home menu.
- A summary of EasyLink buttons you can use with the TV remote control is available at **Connect the TV > Use Philips EasyLink > EasyLink buttons** (Page 50).

EasyLink buttons

Control HDMI-CEC compliant devices with the following buttons on the TV remote control.

- **OK**: Starts, pauses or resumes playback on the connected device. Also activates a selection or accesses the menu of the device.
- ⏮ (**Previous**) / ⏭ (**Next**): Searches backwards and forwards on the connected device.
- **Numeric buttons**: When EasyLink is enabled, selects a title, chapter or track.

- (**Options**): Displays the menu of the connected device. When is pressed, the TV menu is displayed.
- (**Standby**): Press to enable one-touch standby. This switches the TV and the connected device to standby.

Other EasyLink buttons are available via On-Screen Remote Control (OSRC).

To access the OSRC

1. While watching a connected device, press .
2. Select **[Show remote control]**, then press **OK**.
3. Use the **Navigation buttons** and **OK** to select and use an on-screen button.
4. Press to exit.

Configure TV speakers

You usually connect the TV to an HDMI-CEC compliant device such as a HTS using both an HDMI cable for video and a digital audio cable for audio. You can output TV audio through the HDMI cable solely, provided both the TV and device are HDMI ARC compliant (see **Connect the TV > Use Philips EasyLink > Use HDMI ARC**).

Configure TV speakers

1. Press .
2. Select **[Setup]** > **[Advanced TV settings]** > **[EasyLink]** > **[TV speakers]**.
3. Select one of the following options, then press **OK**:

- **[Off]**: Turn off TV speakers.
- **[On]**: Turn on TV speakers.
- **[EasyLink]**: TV audio continues to be streamed through the TV speakers. Switch the TV audio to the connected HDMI-CEC audio device through the experience menu.
- **[EasyLink autostart]**: Turn off TV speakers automatically and streams TV audio to the connected HDMI-CEC audio device.

Switch TV audio in experience menu

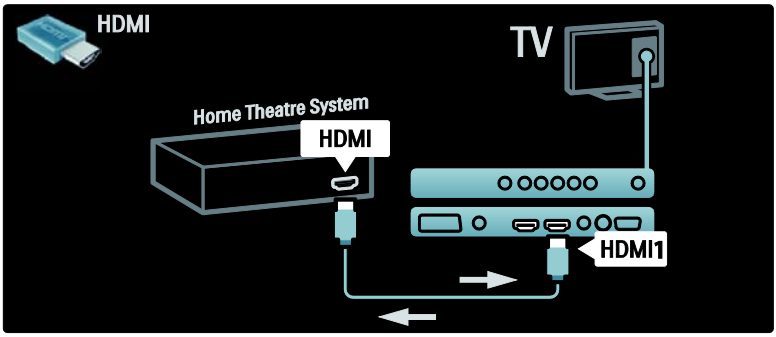
If **[EasyLink]** or **[EasyLink autostart]** are selected, access the experience menu to switch the TV audio.

1. While watching TV, press .
2. Select **[Speakers]**, then press **OK**.
3. Select one of the following, then press **OK**:

- **[TV]**: On by default. Streams TV audio through TV speakers until the connected HDMI-CEC audio device switches to system audio control. Thereafter, TV audio is streamed through the connected device.
- **[Amplifier]**: Streams audio through the connected HDMI-CEC device. If system audio mode is not enabled on the device, audio will continue to stream from TV speakers if **[EasyLink]** was selected. If **[EasyLink autostart]** was enabled, the TV prompts the connected device to switch to system audio mode.

Use HDMI ARC

The HDMI 1 connector is HDMI Audio Return Channel (ARC) compliant. Use it to output digital audio to an HDMI Home Theatre System.



HDMI ARC allows you to use Philips EasyLink to output TV audio directly to a connected audio device, without the need for an additional digital audio cable.
Be sure that the device is HDMI-CEC and ARC compliant, and that the TV is connected to the device using an HDMI cable attached to HDMI ARC connectors.

Enable or disable HDMI ARC

Note: Enabling HDMI ARC automatically adds the device to the home menu.

1. Press ⌂.
2. Select **[Setup]** > **[Advanced TV settings]** > **[EasyLink]** > **[HDMI 1 - ARC]** > **[On]** or **[Off]**.
3. Press **OK** to activate

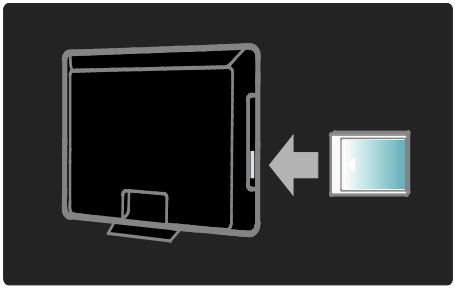
Use a CAM

Insert and activate a CAM

Caution: Be sure to follow the instructions described below. Incorrect insertion of a Conditional Access Module (CAM) may damage both the CAM and your TV.

Notes:

- This TV supports CI as well as CI+. CI+ allows service providers to offer premium HD digital programmes with a high level of copy protection.
- Refer to the documentation from your service operator on how to insert a smart card into the Conditional Access Module.



1. Switch off the TV.
2. Following the directions printed on the CAM, gently insert the CAM into the Common Interface at the side of the TV. Push the CAM in as far as it will go.
3. Turn on the TV and wait for the CAM to be activated. This may take several minutes. Do not remove the CAM from the slot when in use; removing the CAM will deactivate digital services.

Access CAM services

1. After inserting and activating the CAM, press ☐.
2. Select **[Common interface]**, then press **OK**.
3. Select a CAM application, then press **OK**. The selected CAM application is enabled.

6 Troubleshooting

Contact us

If you cannot resolve your problem, refer to the FAQs for this TV at (http://www.philips.com/support).
If the problem remains unresolved, contact Philips Consumer Care in your country as listed in the leaflet accompanying your product.

Make a note of your TV model and serial number before you contact Philips. These numbers are printed on the back of the TV and on the packaging.
Warning:Do not attempt to repair the TV yourself. This may cause severe injury, irreparable damage to your TV or void your warranty.

General TV issues

The TV does not switch on:

- Disconnect the power cable from the power socket. Wait for one minute then reconnect it.
- Check that the power cable is securely connected.
- Check that the **power switch** on the bottom/back of the TV is switched on.

The TV does not respond to remote control or side controls when switched on
The TV requires some time to start up. During this time, the TV will not respond to the remote control or side controls. This is normal behaviour.

The standby light on the TV blinks red:
Disconnect the power cable from the power socket. Wait until the TV cools down before reconnecting the power cable. If the blinking reoccurs, contact Philips Consumer Care.

You forgot the code to unlock the child lock feature:
Enter '8888'.
The TV menu is in the wrong language:
Change the TV menu to your preferred language.

When turning the TV on/off/to standby, you hear a creaking sound from the TV chassis:
No action is required. The creaking sound is normal expansion and contraction of the TV as it cools down and warms up. This does not impact performance.

When the TV is in standby mode, a startup splash screen is displayed, then returns to standby mode:
This is normal behaviour. The startup screen is displayed when the TV is disconnected from the mains and reconnected.

TV channel issues

Previously installed channels do not appear in the channel list:
Check that the correct channel list is selected.

No digital channels were found during the installation:
Check that the TV supports DVB-T, DVB-C or DVB-S in your country. See the listed countries on the back of the TV.

Picture issues

The TV is on, but there is no picture or the picture is distorted:

- Check that the antenna is properly connected to the TV.
- Check that the correct device is selected as the TV source.
- Check that the external device or source is properly connected.

There is sound but no picture:
Check that the picture settings are correctly set.

There is poor TV reception from an antenna connection:

- Check that the antenna is properly connected to the TV.
- Loudspeakers, unearthed audio devices, neon lights, high buildings and other large objects can influence reception quality. If possible, try to improve the reception quality by changing the antenna direction or moving devices away from the TV.
- If reception on only one channel is poor, fine tune this channel.

There is poor picture quality from connected devices:

- Check that the devices are connected properly.
- Check that the picture settings are correctly set.

The TV did not save your picture settings:
Check that the TV location is set to the home setting. This mode offers you the flexibility to change and save settings.

The picture does not fit the screen; it is too big or too small:
Try using a different picture format.

The picture position is incorrect:
Picture signals from some devices may not fit the screen correctly. Check the signal output of the device.

The picture from broadcasts is scrambled:
You may need to use a Conditional Access Module to access content. Check with your operator.

An "e-sticker" banner displaying information appears on the TV display:
The TV is in **[Shop]** mode. Remove the e-sticker by setting the TV to **[Home]** mode then restarting the TV. See **Setup the TV > Change other settings > TV location** (Page 34) for more information.

Sound issues

There is a picture but sound quality is poor:
If no audio signal is detected, the TV automatically switches the audio output off — this does not indicate malfunction.

- Check that all cables are properly connected.
- Check that the volume is not set to 0.
- Check that the sound is not muted.
- Check that the TV speakers setting is on in the sound menu.
- Check that the TV audio output is connected to the audio input on the HDMI CEC enabled/EasyLink-compliant HTS device. Sound should be heard from the HTS speakers.

There is a picture but the sound quality is poor:
Check that the sound settings are correctly set.

There is a picture but sound comes from one speaker only:
Verify that sound balance is set to the centre.

HDMI connection issues

There are problems with HDMI devices:

- Note that HDCP (High-bandwidth Digital Content Protection) support can delay the time taken for a TV to display content from a HDMI device.
- If the TV does not recognise the HDMI device and no picture is displayed, try switching the source from one device to another and back again.
- If there are intermittent sound disruptions, check that output settings from the HDMI device are correct.
- If you use an HDMI-to-DVI adapter or HDMI to DVI cable, check that an additional audio cable is connected to AUDIO L/R or AUDIO IN (mini-jack only).

You cannot use EasyLink features:
Check that your HDMI devices are HDMI-CEC compatible. EasyLink features only work with devices that are HDMI-CEC compatible.

If an HDMI-CEC compliant audio device is connected to the TV and the TV does not display any mute or volume icon when the volume is muted, increased or decreased.
This behaviour is normal when an HDMI-CEC audio device is connected.

USB connection issues

USB device content is not displayed:

- Check that the USB storage device is set to 'Mass Storage Class' compliant, as described in the storage device's documentation.
- Check that the USB storage device is compatible with the TV.
- Check that the audio and picture file formats are supported by the TV.

Audio and picture files do not play or display smoothly:
The transfer performance of the USB storage device may limit the data transfer rate to the TV, causing poor playback.

PC connection issues

The computer display on the TV is not stable:

- Check that your PC uses the supported resolution and refresh rate.
- Set the TV picture format to unscaled.

7 Technical data

Overview

Product information is subject to change without notice. For detailed product information, go to (http://www.philips.com/support).

Power and reception

Power

- Mains power: AC 220-240 V~, 50-60 Hz
- Standby power: <0.15 W
- Ambient temperature: 5 to 40 degrees Celsius
- For power consumption, see the product specifications at (http://www.philips.com/support).

Reception

- Antenna input: 75ohm coaxial (IEC75)
- TV system: DVB COFDM 2K/8K
- Video playback: NTSC, PAL, SECAM
- Digital TV: MPEG-4, DVB-T (Terrestrial), DVB-C (Cable), DVB-S * (Satellite), MHP (Multimedia Home Platform - Available in Italy only).
- Tuner bands: VHF, UHF, S-Channel, Hyperband
- Available on certain models only.

Display and sound

Picture/Display

- Display type: LCD Full HD W-UXGA
- Diagonal size:
  - 32 inch/81 cm
  - 37 inch/94 cm
  - 42 inch/107 cm
  - 46 inch/117 cm
- Aspect ratio: Widescreen 16:9
- Panel resolution: 1920 x 1080p, 100 Hz
- Pixel Precise HD picture enhancement
- 1080p 24/25/30/50/60 Hz processing
- 100 Hz LCD

Sound

- Output power (RMS): 24 W
- Incredible Surround
- Clear Sound
- Dynamic Bass Enhancement
- Mono/Stereo/NICAM

Display resolutions

Computer formats - HDMI
(Resolution - refresh rate)
640 x 480 - 60 Hz
800 x 600 - 60 Hz
1024 x 768 - 60Hz
1360 x 768 - 60Hz
1280 x 1024 - 60Hz
1600 x 1200 - 60Hz
1920 x 1080 - 60Hz

Computer formats - VGA
(Resolution - refresh rate)
640 x 480 - 60 Hz
800 x 600 - 60 Hz
1024 x 768 - 60 Hz
1360 x 768 - 60Hz

Video formats
(Resolution - refresh rate)
480i - 60 Hz
480p - 60 Hz
576i - 50 Hz
576p - 50 Hz
720p - 50 Hz, 60 Hz
1080i - 50 Hz, 60 Hz
1080p - 24 Hz, 25 Hz, 30 Hz, 50 Hz, 60 Hz

Multimedia

Supported multimedia connections

- USB (FAT or DOS-formatted; Mass Storage Class-compliant only)
- SD card slot

Ethernet UTP5 **Supported image files** JPEG (*.jpg), ALB (*.alb)

Supported audio/video files *

- AVI video (*.avi): MPEG-4 SP, MPEG-4 ASP
- AVI audio (*.avi): MPEG Layer 2/3, AC3
- MPEG video (*.mpg, *.mpeg, *.vob): MPEG-1, MPEG-2
- MPEG audio (*.mp2, *.mp3, *.mpg, *.mpeg, *.vob): MPEG-1 Layer 2, MPEG-1 Layer 3, LPCM, AC3
- MPEG-4 video (*.mp4): MPEG-4 AVC (H.264, L2-CIF), MPEG-4 AVC (H.264, L4-HD)
- MPEG-4 audio (*.mp4): AAC-LC, AAC-HE
- WMV video (*.wmv): WMV9/VC1
- WMA audio (*.wma): WMA (v2 to v9.2)

• Multimedia file names must not exceed 128 characters.

Supported DLNA-compliant media server software **

- Windows Media Player (for Microsoft Windows)
- Twonky Media (for Microsoft Windows and Mac OS X)
- Sony Vaio Media Server (for Microsoft Windows)
- TVersity (for Microsoft Windows)
- Nero MediaHome
- DiXiM (for Microsoft Windows XP)
- Macrovision Network Media Server (for Microsoft Windows)
- Fuppes (for Linux)
- uShare (for Linux)

** This is not a comprehensive list. Check http://www.dlna.org for the latest updates.

Supported DLNA audio/video files

- WMV video (*.wmv): WMV9/VC1
- MPEG audio (*.mp2, *.mp3, *.mpg, *.mpeg, *.vob): MPEG-1 Layer 2, MPEG-1 Layer 3, LPCM, AC3
- MPEG-4 video (*.mp4): MPEG-4 AVC (H.264, L2-CIF), MPEG-4 AVC (H.264, L4-HD)
- MPEG-4 audio (*.mp4): AAC-LC, AAC-HE

Connectivity

Rear

- EXT 2: SCART (RGB/CVBS)
- EXT 3: Component (Y Pb Pr), Audio L/R
- Headphones: Stereo 3.5-mm mini-jack
- SERV.U: Service port
- Network: Ethernet

Bottom

- EXT 1: SCART (RGB/CVBS)
- HDMI(1) ARC: HDMI Audio Return Channel
- HDMI(2)/(3): HDMI
- DIGITAL AUDIO OUT: Coaxial
- AUDIO IN: DVI/VGA stereo 3.5-mm mini-jack
- Antenna: 75 ohm coaxial
- VGA: PC input

Side

- HDMI
- USB
- SD card
- Common Interface: CI
- SAT (DVB-S): Available on certain models only.

Dimensions

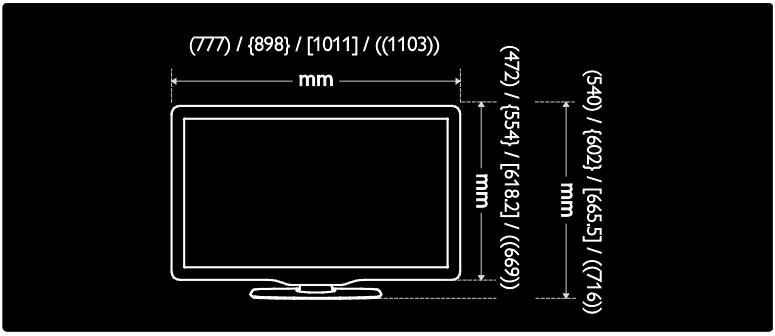
Note: Dimensions and weights are approximate values only. Design and specifications are subject to change without notice.

The legends used to indicate the TV dimensions are as follows:

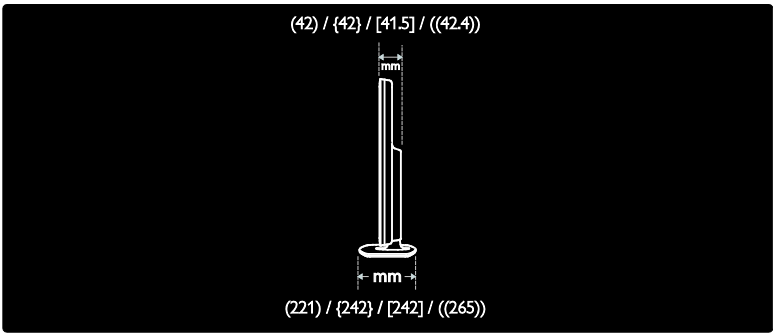
( ): 32 inch/81 cm TV
{ }: 37 inch/94 cm TV
[ ]: 42 inch/107 cm TV
(( )): 46 inch/117 cm TV

Make a note of the legend that corresponds to your TV. Then, navigate to the next page to view the dimensions.

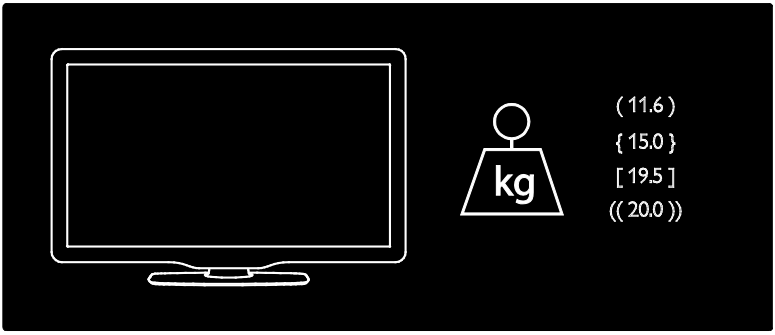
Use your TV legend to note the dimensions of your TV (with and without the stand).



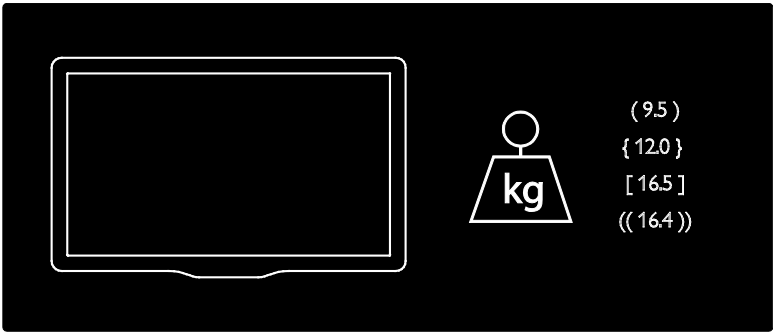
Use your TV legend to note the thickness of your TV (with and without the stand).



Use your TV legend to note the weight of the TV with stand.



Use your TV legend to note the weight of the TV without the stand.



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